
Volume

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R0281

BOOK A-281

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PRELIMINARY OATHS OF ASSISTANTS.

WE, _____ and _____

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of _____

_____, Chairman.

_____, Chairman.

Subscribed and sworn to before me this _____
day of _____, 1899 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of _____

_____, Moundman.

_____, Moundman.

Subscribed and sworn to before me this _____
day of _____, 1899 }



WE, _____ and _____

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of _____

_____, Axman.

_____, Axman.

Subscribed and sworn to before me this _____
day of _____, 1899 }



I, _____, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of _____

Subscribed and sworn to before me this _____
day of _____, 1899 }



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Township 25 S., Range 25 E.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chairman.

, Chairman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }
day of , 189 }



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INDEX DIAGRAM.

Township ~~24 S.~~, Range ~~24 E.~~

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, and
 do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chairman.

....., Chairman.

Subscribed and sworn to before me this }
 day of , 189 }



WE, and
 do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
 day of , 189 }



WE, and
 do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
 day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
 day of , 189 }



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Township 11 S., Range 2 E.

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Meanders Page.....

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PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., Chainman.

....., Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., Moundman.

....., Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., Axman.

....., Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., Flagman.

Subscribed and sworn to before me this }
day of , 189 }



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INDEX DIAGRAM.

Township 13 S., Range 10 E.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by striking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 189 }
 {



We, and
do solemnly swear that we will well and truly perform the duties of moudmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moudman.

, Moudman.

Subscribed and sworn to before me this }
day of , 189 }
 {



We, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
day of , 189 }
 {



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }
day of , 189 }
 {



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INDEX DIAGRAM.

Township 5 N., Range 3 E.

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Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

, Chainman.

, Chainman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

, Moundman.

, Moundman.

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

, Axman.

, Axman.

Subscribed and sworn to before me this }
day of , 189 }



I, , do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

, Flagman.

Subscribed and sworn to before me this }
day of , 189 }



H
BOOK A-281

FIELD NOTES

Attachment
OF THE SURVEY OF THE

Grand River
 Guide Meridian
 through
 Township No. 25 South
 Between
 Ranges Nos 23rd and 24 East

Of the Salt Lake base^{and} Meridian,
 In the state of Utah.

AS SURVEYED BY
 Hubert D. Page, U.S. Deputy Surveyor, Compass man for
 James M. Lenby, United States Deputy Surveyor,

Under his Contract No. 238, dated March 14th, 1890.

Survey commenced January 21st. 1889.

Survey completed January 22nd. 1890.

Revised April 01. 89.

NAMES AND DUTIES OF ASSISTANTS.

John S. Foy Chairman
Thomas L. Parrott "
Harvey D. Kist "
George W. Sadler "
Thomas L. Parrott soundman
George W. Sadler alarm
Orson Allred flagman

BOOK A-281

INDEX DIAGRAM.

Township _____, *Range* _____

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30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, John D. Roy, Thomas J. Parrott, Harvey D. Heist, and George W. Sadel,

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Grand River Guide Meridian through P. 75 S., R. 23 E. of the Salt Lake base line

in the state of Utah.

John D. Roy

Thomas J. Parrott, Chairman.

Harvey D. Heist

George W. Sadel, Chairman.

Subscribed and sworn to before me this 19th

day of January, 1891 } 

Hubert D. Page,
U.S. Deputy Surveyor

WE, Thomas J. Parrott, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of my skill and ability, in the survey of

Grand River Guide Meridian through P. 75 S., R. 23 E. of the Salt Lake base line

Meridian State of Utah.

Thomas J. Parrott, Moundman.

, Moundman.

Subscribed and sworn to before me this 19th

day of January, 1891 } 

Hubert D. Page,
U.S. Deputy Surveyor

WE, George W. Sadel, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of my skill and ability, in the survey of

Grand River Guide Meridian through P. 75 S., R. 23 E. of the Salt Lake base line

Meridian State of Utah.

George W. Sadel, Axman.

, Axman.

Subscribed and sworn to before me this 19th

day of January, 1891 } 

Hubert D. Page,
U.S. Deputy Surveyor

I, Orron Collier,

do solemnly swear that I will well and truly

perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the

survey of Grand River Guide Meridian through P. 75 S., R. 23 E. of the Salt Lake

base line Meridian State of Utah.

Orron Collier, Flagman.

Subscribed and sworn to before me this 19th

day of January, 1891 } 

Hubert D. Page,
U.S. Deputy Surveyor

Land River Guide Meridian

Op. 25d. between Rs. 73rd & 74th E

Survey commenced

January 21st 1901.

And executed with the instrument
described in book A.
of this survey.

To test the polar apparatus by
comparing its indications,
resulting from solar observations
made, during A.m. and p.m. hours,
with a true meridian determined
by observation on Polaris, I proceed
as follows:

At the cor. of
D. 25th S. R. 73rd 24' E.
which is a granite 20x20x18 in. stone
set in a mound of stone,
marked and pitcured as described
by the Surveyor General.
Lat. $28^{\circ}35'36''$ N., Long. $109^{\circ}20'18''$ W.

At 4 p.m. l.m.t., I set off $38^{\circ}36'$ N. on the
Lat. arc; $19^{\circ}49'$ S. on the decl. arc; and at
determine with the polar a true
meridian, and mark a point
thereof on a stone set firmly
in the ground, 5 chs. N. of the
cor.

At 11th 15 p.m. l.m.t., I observe Polaris
at western elongations, in accord-
ance with the manual of in-
structions, and mark a point
on the line thus determined on a
spike driven in the ground, 5 chs
N. of the cor.

BOOK A-201 Replacement of
Grand River guide American

through Twp 25 S. between Rds. 73 & 74 Coast.

Jan. 32nd 1901.

At 7:30 a.m., l.m.t., I lay off the Azimuth of Polaris $1^{\circ}34' 10''$ to the East and mark the True Meridian thus determined, by cutting a small groove in the stone set Jan. 21 on which the true meridian falls 0.5 ins. west of the mark determined by the polar.

At 8 a.m., l.m.t., I set off $38^{\circ}36' N.$ of lat. acc. $19^{\circ}40' S.$ and decl. acc. and mark a point in the true meridian determined with the Polar, by a cross on the stone already set 5 chs. N. of the cot. This mark falls 0.3 ins. W. of the true meridian established by Polaris observations.

The polar apparatus, by p.m. and a.m. observations, defines positions for true meridian respectively about $0.13'$ east and $0.16'$ west of the true meridian established by the Polaris observation; therefore, I conclude the adjustment of the instruments are correct.

The magnetic bearing of the true meridian, at 8 a.m. is $71^{\circ}15' 16'' E.$ the angle thus determined reduced by the table page 100, gives the mean mag. decl. $1508' 8''$.

Preliminary to beginning the south side of this township I run North on a blank fine lot. Secs. 31 and 36.

At 39.86 chs. I find the spec. cot. which is a porphyry 12 x 4 x 11 above ground fairly set and marked as described by the Surveyor General.
1190 chs. East

Mississippi River Guide Meridian
Lat 39° 25' S., Between R's 23rd & 24th East

The course of this line is therefore 16°
N. 163° E., and the dist. 41.60 lbs.

Thence I run North on
Blank line

At 39.96 chs. I find the col. of sec. 25, 30, 31, 36 which
is a porphyry 14 x 12 x 3 ins. above ground
firmly set and marked and witnessed
as described by the Surveyor General.
7 lbs. each.

The course of this line is therefore
N. 0° 05' W.

Thence I run North on
blank line bet. secs. 25^{and} 30

At 39.95 chs. I find the old 1/4 sec. col.
which is a porphyry 12 x 8 x 6 ins. above
ground firmly set and marked
and witnessed as described by the
Surveyor General.

East 12 lbs.

The course of this line is therefore 18°
N. 0° 10' E.

Thence I run North on
Blank line,

At 40.11 chs. I find the col. of sec. 19, 24, 25^{and} 30
which is a sand stone 10 x 15 x 4 ins.
above ground firmly set, marked
and witnessed as described by the
Surveyor General.

West 36 lbs.

The course of this line is therefore
N. 0° 31' W.

Thence I run North on
blank line bet. secs 19^{and} 24

At 39.80 chs. I find the old 1/4 sec. col.
which is a sand stone 10 x 8 x 8 ins.
above ground marked and witnessed
as described by the Surveyor General
W. 30 lbs.

The course of this line is therefore 16°

Grand River Guide Canadian
through Pp. 251, between R. 23nd & 24thE.

N. 0° 26' N.

Thence I run North on
blank line

at 39.90 chs. I find the old cor.
to secs. 13, 18, 19th & 24. which is a
sand stone 12 x 8 x 5 ins. above
ground marked and witnessed
as described by the Surveyor
General.

N. 29 lps. The course of this
line is therefore.

N. 0° 25' N.

Thence I run North on
blank line, bet. secs. 13 & 18.

at 40.00 chs. I find the old 1/4 acre
cor. which is a sand stone 11 x 7
x 7 ins. above ground, marked
as described by the Surveyor General
East 10 lps.

The course of this line is
therefore N. 0° 09' E.

Thence I run North on
blank line.

at 40.05 chs. I find the cor. of
secs. 7, 17, 13 & 18. which is a sand
stone 12 x 9 x 7 ins. above ground
marked and witnessed as
described by the Surveyor
General.

East 15 lps.

The course of this line is
therefore. N. 0° 13' E.

This portion of the line seems to
be within proper limits therefore
I discontinue further retracement.

Jan 22nd, 901

Hubert D. Page, U.S. Deputy Surveyor of Compassion,
for James M. Lenz, U.S. Deputy Surveyor

There being no Notary public or
other offices authorized to administer
oaths within a reasonable distance
at the beginning or ending of
the survey, in order to save
time and expense, I administer
the preliminary and final oaths
myself,

Hubert D. Page
U.S. Deputy Surveyor.

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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D Page U.S. Deputy Surveyor, Companion
James M. Lentz, United States Deputy Surveyor, to assist in running, measuring, and
 working the lines and corners described in the foregoing field notes of the survey of Grand River Guide
Meridian through T. 25 S., between R. 23rd & 24th of the Salt Lake base Meridian
 the official
 wing the respective capacities in which they acted:

George W. Sadler, John L. Foy, Chainman.
Ward D. Bush, Thomas Parrott, Chainman.
Thomas Parrott, Moundman.
George W. Sadler, Moundman.
Oson Allred, Axman.
Oson Allred, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D Page U.S. Deputy Surveyor,
 companion for James M. Lentz, United States Deputy Surveyor, in surveying all
 parts or portions of the Grand River Guide Meridian
through T. 25 S., between R. 23rd & 24th East.

the base line meridian, in the state of Utah, which are represented
 in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
 been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
 monuments established, according to the instructions furnished by the United States Surveyor
 general for Utah.

<u>John Lee Hoy</u>	<u>Thomas J. Parrott</u> , <u>Chainman.</u>
<u>Harvey L. Heist</u>	<u>George W. Sadler</u> , <u>Chainman.</u>
	<u>Thomas J. Parrott</u> , <u>Moundman.</u>
	<u>George W. Sadler</u> , <u>Moundman.</u>
	<u>George W. Sadler</u> , <u>Axman.</u>
	<u>Oson Allred</u> , <u>Axman.</u>
	<u>Oson Allred</u> , <u>Flagman.</u>

scribed and sworn to before me this 11th
 day of February, 1890. }



Hubert D Page
U.S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert Chapman, Deputy Surveyor, for Jacob D. Dent, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob D. Blair, United States Surveyor General for The District of Estab., bearing date of the 14th day of March 1890, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for The District of Estab., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The Grand River Grade Receding, Through S. 95.5 degrees R. 238-94 E.

Base and meridian, in the State of Pelab, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for The District of Pelab, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

the penalty of perjury under the provisions of an Act of Congress approved August 8, 1864.
Hubert D. Page, U.S. Deputy Surveyor, Compass-man for
James M. Lentz,
United States Deputy Surveyor.

Subscribed by said Deceased Person, and sworn to before me
this 4th day of December 1901, 189



Edward Anderson
Ch. Secretary General for Dept.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

Salt Lake City, Utah June 14, 1902, 188

The foregoing field notes of the survey of the Grand Circle Grade Line
through the 35°5' between Rs. 23 & 24, E of the Dark Lake Base
and Minidin Utah.

executed by Malvina O. Page, E. H. Geary, Carter, Surveyors for Jamaica, Geo. E. H. Geary, Surveyor,
under his contract No. 19381, dated March 14, 1900, 189, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
wherabouts they describe, are hereby approved.

Edward M. Anderson
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

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BOOK A-281

FIELD NOTES

OF THE SURVEY OF THE

*Fifth Standard Parallel South
through
Range No. 24 East.*

of the Salt Lake base and Meridian,

In the State of Utah

AS SURVEYED BY

*John F. Page, U.S. Deputy
Surveyor, James M. Lantz, United States Deputy Surveyor,*

Under his Contract No. 138, dated March 14th, 1890

Survey commenced January 25th, 1890

Survey completed January 25th, 1890

High 2-00-00

NAMES AND DUTIES OF ASSISTANTS.

John L. Gay Chairman
Thomas L. Parrott "
Harvey Offish "
George W. Saddler "
Thomas J. Parrott Mountman
George W. Saddler armam
Orson allied flag man

BOOK A-281

INDEX DIAGRAM.

Township, *Range*

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Noanders Page

PRELIMINARY OATHS OF ASSISTANTS.

We, Jno. D. Day, Thomas L. Parrott, Surveyor, George W. Sadel,

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Dift Standard Parallel South through R. 24^E, of the Salt Lake base and meridian, State of Utah.

John S. Day

Thomas L. Parrott

, Chainman.

Harvey L. Scott

George W. Sadel, Chainman.

Subscribed and sworn to before me this 19th
day of January, 1891 }



Hubert D. Page,
U.S. Deputy Surveyor

We, Thomas L. Parrott and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given ^{me} to the best of ^{my} skill and ability, in the survey of

Dift Standard Parallel South through R. 24^E, of the Salt Lake base and meridian, State of Utah.

Thomas L. Parrott, x, Moundman.

, Moundman.

Subscribed and sworn to before me this 19th
day of January, 1891 }



Hubert D. Page,
U.S. Deputy Surveyor

We, George W. Sadel and

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given ^{me} to the best of ^{my} skill and ability, in the survey of

Dift Standard Parallel South through R. 24^E, of the Salt Lake base and meridian, State of Utah.

George W. Sadel, Axman.

, Axman.

Subscribed and sworn to before me this 19th
day of January, 1891 }



Hubert D. Page,
U.S. Deputy Surveyor

I, Orson Allard

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Dift Standard Parallel South through R. 24^E, of the Salt Lake base and meridian, State of Utah.

Orson Allard, Flagman.

Subscribed and sworn to before me this 19th
day of January, 1891 }



Hubert D. Page,
U.S. Deputy Surveyor

Survey of U.S.

4th Standard parallel South, through Range 24 East.

Survey Commenced

January 25th, 1901.
And executed with the instrument
described in book. A.
of this survey.

I know the instrument to
be in adjustment from recent
test made,

at the C. of W. 25th, 6th, R. 23rd
24^{E.} Recorded in Book H

No trace of the old standard C. of W. 37th, 33rd
can be found; therefore, Resurvey the 5th
Standard Parallel, R. 24^{E.}, as follows;

January 25th 1901.

At 8 a.m., l. m.t. I set off 38' 36"
N. or Lat. acc; 18' 57" S. or Decl. acc;
and determine a true meridian
with the solar at the C. of
W. 25th, 26th, S. R. 23rd 24^{E.}.

Thence I run

East on the tangent S. of sec. 31.
Ascending through heavy cedar
and pine, etc.

30.00 Top of high ridge, bears S.E. by N.W.
descend.

33.00 Leave heavy cedar, but pine on
Ceder P.C. (thickening cedar) but pine on

Difference between measurements
of 40.00 chs; by two sets of chain-
men, is 17 lbs.; position of middle
point.

By 1st set 39.94 chs.

By 2nd set 40.06 chs.; the mean of
which is

40.00 N. 0.13 ft. from the tangent
Set a post phys. 16x16x6 ins. 12 ins. in the ground for
re-established Standard 1/4 S. C. of. marked
S. C. 1/4 S. 31 on N. face. and raised a
mound of stone 2 ft. base, 1 1/2 ft. high N. of lot

Standard parallel south through R. 74 E. continued

Chains.

Pits impracticable.

The old 1/4 sec. cot. which is a granite
16x12x8 ins. laying loose on the ground
marked and witnessed as described by
the Surveyor General,
bear S 40° E 700 chs.

Destroy all trace of old cot.
and witness trees.

5950

Bottom of ravine, 500 ft. deep. Course
N. W. Estes, heavy cedar and pine on
timber.

6750

Top of ridge, bear N. W. $^{m} \text{S} \text{E}$.
Leads timber, bear N. E. S.

71.00

Enter dense artemesia

Difference between measurements
of 8000 chs., by two sets of chainmen,
is 14 lks. position of middle point

By 1st set 79.93 chs.

By 2nd set 80.07 chs.; the mean of which
is

8000

N. 053° from the tangent

Set a drachter $2\frac{1}{2} \times 1\frac{1}{2} \times 6$ ins. in a
mound of stone for re-established stand-
ard cot. of secs 31 and 32.

Marked S.C. on N. with 1 groove on
the N. and 5 grooves on the E faces
and raised a mound of stone 2 ft.
base, 1/4 ft high. N. of cot.

Pits impracticable.

After diligent search no trace
of the old standard sec. cot. can
be found.

Land, mountainous

Soil, stony $3\frac{1}{2}$ and 4th plate

Timber, Cedar and pine on

Dense undergrowth, heavily timbered
and mountainous land

8000 chs

Resurvey of the

Standard parallel South through R. 24 E., Continued.

Chains.	
	S. 89° 59' E. on the tangent S. of sec. 32 Ascending; through dense artemesia and oak brush.
9.00.	Bottom of ravine 150 ft. deep Course N.W. and Way on road bear N.
9.25	Spring Creek, banks wide 4 in. deep pure water, flows N.
36.50	Bottom of ravine, 75 ft. deep course N. W.
	Difference between measurements of 40.00 chs., by two sets of chain men is 6 lbs. Position of middle point. By 1 st set 39.97 chs. By 2 nd set 40.03 chs.; the mean of which is
40.00	N. 1.20 ft. from the tangent Set a porphyry $\frac{1}{2} \times 16 \times 8$ in., for re-established standard of sec. cor. marked S.C. $\frac{1}{4}$ S. 32 over N. face and raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pits in impracticable. After diligent search no trace of old standard of sec. cor. can be found.
48.00	South point of cedar and pine on grove, bears N. E. and N. W.; and foot of Laramie mts. bear N. E. and S. W. Ascend
	Difference between measurements of 80.00 chs.; by two sets of chain-men, is 10 lbs.; position of middle point. By 1 st set 79.95 chs. By 2 nd set 80.05 chs.; the mean of which is

5th Standard parallel South through R. 24 E., conclude.

chains.	
80.00	N. 21.13 ft. from the tangent set a porphyry 24 x 30 x 6 ins. in a mound of stone, for re-established Standard cor. of S. 61.37 and 33. marked S.C. or N. with 29 grooves on the N. and 11 grooves on the S. faces. From which a pine 11 ins. in diam. bears N. 58°45' W. 62 lbs. dist. marked P. 25 S., R. 24 E., S 37. (P.G.) After diligent search no trace of the old standard, see Gom. can be found. Land, mountainous. Soil, stony. 3 ^d aquifer rate. Timber, scattering Mountainous land, and dense undergrowth.
	8000 ft.
	January 25 th 1901

Hubert D. Page U.S.
Deputy Surveyor, Commissioner for
James M. Lentz U.S. Deputy Surveyor

There being no notary, public or other officer authorized to administer oaths within a reasonable distance, at the beginning or end of the survey, in order to save expense, ^{part time}; I administer the preliminary and final oaths myself.

Hubert D. Page
U.S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, ^{U.S. Deputy Surveyor} Compassionary for James M. Lentz, United States Deputy Surveyor, to assist in running, measuring, and taking the lines and corners described in the foregoing field notes of the survey of Gifth Standard Parallel South through R. 24 E.,
wing the respective capacities in which they acted:

John S. Roy, Thomas L. Parrott, Chainman.
Harvey C. West, George W. Adler, Chainman.
Thomas L. Parrott, Moundman.
George W. Adler, Moundman.
George W. Adler, Axman.
Oeson Allred, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, ^{U.S. Deputy Surveyor} Compassionary for James M. Lentz, United States Deputy Surveyor, in surveying all parts or portions of the Gifth Standard Parallel South through R. 24 E.

John S. Roy, Thomas L. Parrott, Chainman.
Harvey C. West, George W. Adler, Chainman.
Thomas L. Parrott, Moundman.
George W. Adler, Moundman.
Oeson Allred, Axman.

scribed and sworn to before me this 11th
day of February, 1891 }

Hubert D. Page,
U.S. Deputy Surveyor.

RECEIVED
FEB 11 1891

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Hubert D. Page, U.S. Deputy Surveyor for James M. Lantz, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from *Jacob B. Clark*, United States Surveyor General, for *the District of Dakota*, bearing date of the *11th* day of *March 1900*, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for *the District of Dakota*, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of *the Fifth Standard Parallel south through Range 24 East*.

Base and meridian, in the State of Dakota, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for *the District of Dakota*, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Hubert D. Page, U.S. Deputy Surveyor for James M. Lantz.

United States Deputy Surveyor.

Subscribed by said *Hubert D. Page*, and sworn to before me }
this *11th* day of *December 1900*, 1900 }



Edward H. Anderson
U.S. Surveyor General for Dakota

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, January 11, 1901

The foregoing field notes of the survey of *the Fifth Standard Parallel south through Range 24 East of the Salt Lake Base and Meridian, Dakota*,

executed by *Hubert D. Page, U.S. Deputy Surveyor for James M. Lantz*, under his contract No. *1238*, dated *March 11, 1900*, 1900, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General.

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BOOK A-281

FIELD NOTES

OF THE SURVEY OF THE

After

Standard Parallel South
through
Range No. 24 East

of the Salt Lake base and Meridian,
In the state of Utah

AS SURVEYED BY

Hubert D. Page his Deputy
Surveyor Commissioner for James McEntee, United States Deputy Surveyor,

Under his Contract No. 738, dated March 4th, 1880

Survey commenced January 26th, 1881

Survey completed January 27th, 1881

6-101

begin 3-53-80
closing 2-10

NAMES AND DUTIES OF ASSISTANTS.

John S. Day chairman

Thomas L. Parrott "

Harvey D. Fisk "

George W. Saddlet "

Thomas L. Parrott moundman

George W. Saddlet alman

Orson Allard flagman

BOOK A-281

INDEX DIAGRAM.

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37	38	39	40	41	42	43	44

Meanders Page

PRELIMINARY OATHS OF ASSISTANTS.

WE, John D. Toy, Thomas L. Parrott, Harvey Heist, and George W. Sader, do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Fifth Standard Parallel South through R. 24^E, of the Salt Lake base and meridian, State of Utah.

John D. Toy

Thomas L. Parrott, Chainman.

Harvey L. Heist

George W. Sader, Chainman.

Subscribed and sworn to before me this 19th
day of January, 1890. }



Hubert D. Page,

U.S. Deputy Surveyor.

WE, Thomas L. Parrott, and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of Fifth Standard Parallel South through R. 24^E, of the Salt Lake base and meridian, State of Utah.

Thomas L. Parrott, Moundman.

Moundman.

Subscribed and sworn to before me this 19th
day of January, 1890. }



Hubert D. Page,

U.S. Deputy Surveyor.

WE, George W. Sader, and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of Fifth Standard Parallel South through R. 24^E, of the Salt Lake base and meridian, State of Utah.

George W. Sader, Axman.

Axman.

Subscribed and sworn to before me this 19th
day of January, 1890. }



Hubert D. Page,

U.S. Deputy Surveyor.

I, Orion Allred,

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Fifth Standard Parallel South through R. 24^E, of the Salt Lake base and meridian, State of Utah.

Orion Allred,

Flagman.

Subscribed and sworn to before me this 19th
day of January, 1890. }



Hubert D. Page,

U.S. Deputy Surveyor.

To the Standard Parallel South through Range 43.

Chains

Survey Commenced, January 26, 1901
and executed with the instrument
described in book A
of this Survey.

I know the instrument to be
in adjustment, from recent
test made at the Cor. of T.S. 35th and
2d S., Rds. 33rd & 34th and recorded
in book H
of this Survey.

At 8 A.M. locn. I. I set off 38' 36" H.
on lat. inc. 18° 42' S. on deck inc. and
determine a line meridian, at the
Standard Cor. of secs. 32 and 33.
herebefore described on S. bdy of T. 35 S. R. 34th.
Thence I run.

East, on the tangent S. of sec. 33.
Ascending the N. H. slope, at the
La Sal mountains, through scattering
pine timber, bears H. C. and S. H.
Top of spur ridge and mountain.
16 do H. above Cor. projects H.
descend.

Difference bet. measurement of 40.00 chs.
by two sets of chainmen, is 13 lbs.
Position of middle point
By 1st set. 40.06 chs.
By 2nd set. 39.94 chs.

The mean of which is
40.00 ft. from the tangent.
Set a Vichyite stone, 16x10x4 ins. 11 ins.
in the ground, for Standard of sec. cor.
marked S.C. & S. 33, on H. face; and
raise a mound of stone, 2 ft. base,
15 ft. high, H. of m.

It is impracticable.
Bottom of ravine, 35 ft. deep, same
H. record along H. slope of mountain.
Difference bet. measurement of 40.00 chs. by
two sets of chainmen is 10 lbs.

59.50

Fifth Standard Parallel South, through N. 34 C. Continue

Chains

position of middle point.

By 1st set 80.09 lbs.By 2nd set 79.91 lbs.

The mean of which is

80.00

It 1.53 ft. from the tangent.

Set a wedge stone, 0.5 x 10 x 5 inns. 10 ins. in the ground, for Standard Col. of Secs. 33 and 34. Marked S. C. on It and with 3 grooves on C & H face. And raise a mound of stone, off base, 1.5 ft. high. It. of Col.

This impracticable.

Land, mountainous.

Soil, stony. 4th Rate.

Timber, pine.

Mountainous land, 80.00 lbs.

A cloud obscures the sun, no latitude observation can be taken.

S. 89° 59' E. on the tangent S. of sec. 34.
Ascend through scattering timber.

3.40 Top of mountain and spur ridge.

Prospects It. ascend over side rock.

34.50 Bottom of Canon, 1600 ft. below top

of spur ridge, course It. C.

Descend over broken foot hills.

Enter scattering aspen timber.

Difference between measurements of
80.00 lbs, by two sets of chainmen, is
14 lbs. position of middle pointBy 1st set, 40.07 lbs.By 2nd set, 39.93 lbs.

The mean of which is

40.00

It 1.30 ft. from the tangent.

Set a m. aspen post 4 ft long 1 inns. sq.
with marked stone, 36 ins. in the
ground, for Standard 4 sec on

Marked S. C. & S. 34, on It face.
from which

The upper 3 ins. chain bears 41.10 ft.

11201

to Standard Parallel South through R. & C. Continued.

Chains

30 lbs. dist. marked S. C. $\frac{1}{4}$ S. 34. N. T.
No other lines within limits.
dig pits, 18x18x12 ins. C. and H. of post.
30 ft. dist. and raise a mound of
earth, 3 $\frac{1}{2}$ ft. base, 1 $\frac{1}{2}$ ft. high H. of cor.
Bottom of ravine, 600 ft. deep,
Course H. H.

Standard.

Difference bet. measurements of 80.00 chs.
By two sets of chainmen is 30 lbs.
Position of middle point.
By 1st set, 79.90 chs.
By 2nd set, 80.10 chs.

The mean of which is

H. S. 13 ft. from the tangent.

Set an aspen post, 4 ft. long, 4 ins. sq.
with marked A line, 36 ins. in the ground,
for Standard Cor. of Secs. 34 $\frac{1}{4}$ 35, marked
S. C. T. 35 S. R. 23 C. on H.

S. 35. on E., and 34 on W. faces, and with
grooves on C. and 4 grooves on W. faces:
Dig pits 34x18x12 ins. C. and H. of ft. and
H. of post, 7 ft. dist. and raise a mound
of earth, 4 ft. base, 2 ft. high, H. of cor.
Land. Mountainous.

Soil. Stony, $\frac{1}{2}$ in. to 4 th. Rab.

Timber. Scattered aspen and pine.

Mountainous land. 80.00 chs.

January 26, 1901

January 27: At 8 A.M., I. on I. I set off
38' 36" H. on the lat. arc: 18' 27" S. on decl.
arc: and determine a true meridian
with the Solar. at the Standard Cor.
of Secs. 34 $\frac{1}{4}$ 35.

Thence I run

Continuing on the tangent. Started
from the Standard Cor. of Secs.
32 $\frac{1}{4}$ 33.

Fifth Standard Parallel South, through Range 24 E. Continued

Chains	
	S. 89° 58' E. on the tangent, S. of Sec. 35.
	Over rolling foothills, through sparse growth of young aspen & rock brush.
18.00	Bottom of ravine, 100 ft. deep. Course H. 25° H. Ascend.
24.00	Top of spur projects H. H. Descend.
29.50	Bottom of ravine, 100 ft. deep. Course H. H. Ascend.
	Difference between measurements of 40.00 chs. By two sets of chainmen is 10 lbs. Position of middle point - By 1 st set, 40.05 chs. By 2 nd set, 39.95 chs., The mean of which is
40.00	H. 3.32 ft. from the tangent. Set a trachyte stone, 12x8x8 ins., 8 ins. in the ground, for standard 4. sec. cor. marked S.C. & S. 35, on H. face: from which Aspen, 4 ins. high, bears H. 45° E. 7 lbs. Dist. marked S.C. & S. 35. H. 7. No other trees within limits. And raise a mound of stone, 2 ft. base, 15 ft. high, H. of cor. It is imperaditable.
41.00	End pine timber, bears H. ^{and} S.
44.00	Same pine timber bears H. ^{and} S.
62.00	Same aspen timber, bears H. H. ^{and} S. C.
	Difference between measurements of 30.00 chs. By two sets of chainmen is 16 lbs. Position of middle point - By 1 st set, 30.08 chs. By 2 nd set, 29.92 chs. The mean of which is
80.00	H. 4.79 ft. from the tangent. Set a Sandstone, 28x12x6 ins., in a mound of stone, for standard cor. of secs. 35 ^{and} 36, marked S.C. on H. with 5 grooves on H. and 1 groove on C. faces: And raise a mound of stone, 2 ft. base, 15 ft. high, H. of cor.

ith Standard Parallel South, through N. 89° C. Sections

Chains	Pits impracticable. Land, mountainous. Soil, stony, 3 rd and 4 th Rab. Timber, aspen ^{and} pine. Dense undergrowth ^{and} mountainous land, 80.00 chs.
--------	--

	S. 89° 57' C. on the tangent. S. of sec. 86.
81.00	Ascend, through dense arbutus. Cut, heavy aspen timber, bears N. ^{and} S. Difference between measurements of 40.00 chs. By two sets of chainmen, is 6 chs. Position of middle point. By 1 st set, 40.03 chs.
40.00	By 2 nd set, 39.97 chs. the mean of which is H. 6.52 ft. from the tangent. Set a sand-stone, 18 ¹ / ₄ x 4 in., 12 in. in the ground, for Standard 4 sec. cor. Marked S.C. 4 S. 86. on its face: from which
47.50	The ashen, fine, diam. bears H. 3 chs. dia. Marked S. C. 4 S. 86. B. T. No other trees within limits. And raise a second of stone, 2 ft. base, 1 ¹ / ₂ ft. high, H. of cor. Pits impracticable.
53.50	Top of high ridge, bears H. C. and S. H. descend. Difference between measurements of 1153.50 chs. by two sets of Chainmen is 4 chs.: position of middle point By 1 st set, 53.52 chs. By 2 nd set, 53.48 chs. The mean of which is H. 7.18 ft. from the tangent. Intersect East bdy. of Town's lot. 3.10 chs. North of the N. of T. 85 S. R. 37 A. 55 C.

Fifth Standard Parallel South, through R. 24 C., Concluded.

Chains

which is a sandstone, $10 \times 10 \times 10$ ins. above ground, firmly set, marked and witnessed as described by the Surveyor General.

I obliterate all the marks on the stone and witness trees, pertaining to T. 25 S., R. 24 C.

At the point of intersection set an ashlar foot, 4 ft. long, 4 ins. sq. with marked side, 36 ins. in the ground, for Standard Closing Ob. to T. 25 S., R. 24 C., marked S.C. T. 25 S. on N. C.C. R. 24 C. on H.

with 6 grooves on the H. and N. faces from which

An ashlar, 12 ins. diam. bears H. 58° Ft. 27 lbs. dist. marked T. 25 S., R. 24 C., S. 36. 93. T.

No other trees within limits.

Big pine $30 \times 24 \times 1.8$ ins. H. of cor.

4 ft. and H. of cor. 8 ft. dist.

With raise a mound of earth

5 ft. base. 2 1/2 ft. high. H. of cor.

Land mountainous.

Soil - stony. 8th and 4th R.R.

Timber, Ashen.

Dense undergrowth and

mountainous land, 53.50 elev.

January 27, 1901.

For general description, see
Subdivisions of T. 25 S., R. 24 C.

Common

Hubert D. Page, U.S. Surveyor
for James M. Lentz, U.S. Deputy Surveyor

There being no Notary public
or other officer authorized to ad-
minister oaths within reasonable
distance, at the beginning or
ending of the survey; In order
to save time and expense, I
administer the preliminary and
final oaths myself.

Hubert D. Payton
U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, Compassman for James M. Lentz, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Fifth Standard Parallel South through R. 24 E. showing the respective capacities in which they acted:

John D. Hoy, Thomas L. Parrott, Chainman.
Harvey D. Hirst, George W. Sadler, Chainman.
Thomas L. Parrott, Moundman.
George W. Sadler, Moundman.
Oson Allred, Axman.
Oson Allred, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, U.S. Deputy Surveyor Compassman for James M. Lentz, United States Deputy Surveyor, in surveying all those parts or portions of the Fifth Standard Parallel South through R. 24 E.

ake base ^{and} meridian, State of Utah, of the Salt, which are represented the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor general for Utah.

John D. Hoy, Thomas L. Parrott, Chainman.
Harvey D. Hirst, George W. Sadler, Chainman.
Thomas L. Parrott, Moundman.
George W. Sadler, Moundman.
Oson Allred, Axman.
Oson Allred, Flagman.

scribed and sworn to before me this 11th day of February, 1890. {

SEAL

Hubert D. Page
U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Robert D. Gage, Philadelphia, Pennsylvania, George M. Tiet, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from the United States Surveyor General for the West Bank of the Ohio River, bearing date of the 11th day of December 1800, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the West Bank of the Ohio River, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the said three and one-half miles of the Ohio River, from the mouth of the Licking River to the mouth of the Muskingum River.

of the *Sixth Section*

crosses... meridian, in the *State* of *Petotah*, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for *the District of Petotah*, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Albert D. Peleg, U.S. Deputy Surveyor Company of Surveyors for the State
United States Deputy Surveyor.

Subscribed by said Hezekiah Page, and sworn to before me,
this 1st day of December, 1891.

A circular seal with a decorative border containing small circles. The word "SEAL" is written in the center in a bold, sans-serif font.

*Botanischer Katalog
Metzinger'schen Apothekens*

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Worthville, Big Bend, June 14, 1902.

executed by Shelock L. Eng, Surveyor: Contract No. 1000, dated December 14, 1900, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
surveys they describe, are hereby approved.

Edward K. Steele, Jr.
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____
_____, has been correctly copied from the original notes on file in this office.

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BOOK A-281

FIELD NOTES

OF THE SURVEY OF THE

*West boundary of
Township No. 25 South
Range No. 25 East*

*of the Salt Lake base and Meridian,
In the state of Utah.*

AS SURVEYED BY

*Walter D. Page, U.S. Deputy
Surveyor, Comptroller of Ames Morten, United States Deputy Surveyor,*

Under his Contract No. 738., dated March 14th 1900, 189

Survey commenced January 28th 1901, 189

Survey completed January 28th 1901, 189

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*High. 17-10¹
Lower 1-63-10¹ 1⁰ 2⁰*

NAMES AND DUTIES OF ASSISTANTS.

Peter Meyer Chairman

Hale Cherry "

Joseph Rasmussen Moundman

Uvn Lyman admnan

John Baker flag man,

BOOK A-28

INDEX DIAGRAM.

Township _____, *Range* _____

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

We, Peter Meyer

and Hale Cherry

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of the N. bdy. of 9.25 S. R. 256, 4th S. bdy. of 9.24 S. R. 246, of the salt lake base meridian, in the state of Utah.

Peter Meyer, Chairman.

Hale Cherry, Chairman.

Subscribed and sworn to before me this 28th
day of January, 1891 }



I, Joseph Rasmussen

do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the N. bdy. of 9.25 S. R. 256, 4th S. bdy. of 9.24 S. R. 246, of the salt lake base and meridian, in the state of Utah.

Joseph Rasmussen, Moundman.

, Moundman.

Subscribed and sworn to before me this 28th
day of January, 1891 }



I, Vern Lyman

and

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the N. bdy. of 9.25 S. R. 256, 4th S. bdy. of 9.24 S. R. 246, of the salt lake base meridian, in the state of Utah.

Vern Lyman, Axman.

, Axman.

Subscribed and sworn to before me this 28th
day of January, 1891 }



I, John Baker

, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the N. bdy. of 9.25 S. R. 256, 4th S. bdy. of 9.24 S. R. 246, of the salt lake base meridian, in the state of Utah.

John Baker, Flagman.

Subscribed and sworn to before me this 28th
day of January, 1891 }



Herbert D. Page,
U.S. Deputy Surveyor.

Survey of the
West bdy. of S. 25 S., R. 25 East.

Chains.

Survey Commenced.

January, 28th, 1901.

And executed with
the instrument described in
book A. of this survey.

I know the instrument to
be in adjustment from
recent test made
at the cor. of S. 25nd and 26. S.
R. 23rd and 24 E.
And recorded in book H.

Finding the cor. of D. 24th, 25. S., R. 24th-
25 E., in sand,
condition unknown having made
diligent search for the cor.
of secs. 1, 6, 7th 12 6
and find no trace of the
same. I conclude to
retrace the line
from the cor. of sec.
7, 12, 13th 18. North.

At. 2 p. M., C. m. b., Sun
off 38° 39' N. on flat. arc. 18° 10' S
on decl. arc; and determine
a true meridian with the
Solar,

Hence run
North on a blank line
along the W. bdy. of T. P.
bet. sec. 7th 12.

4000 after diligent search no
trace of the old 1/4 sec. cor. can
be found.

8000 after diligent search no
trace of the old sec. cor. can

West boundary of T. 7.5 S. R. 7.5 E. continued

Chains 17000	be found. After diligent search no trace of the old 1/4 sec. cor. can be found.
16000	Find the cor. off T. 7.5 S. R. 7.5 E. which is a sand stone 15 x 10 x 9 ins. in a mound of stone. marked as described by the Surveyor General, Each 24 lks. dash.
	The course of this line is therefore, $N. 6^{\circ} 05' E.$
	The corners along this line having been totally obliterated, I resurvey the line as follows.
900	$50^{\circ} 05' N.$ on a true line along the N. bdy. of T. 7.5 S. R. 7.5 E. and sec. 6.
330	Ascending over rolling land $S. 64^{\circ} 43' E$ to Prescott
40.05	Stevens ranch house Dry river, 10 ft. deep, course $N. 34^{\circ} 30' E.$ Road & wire fence bears $E. 64^{\circ} 43' N.$
48.50	Set a sand stone 15 x 12 x 5 ins. 10 ins. in the ground, foot re-established 1/4 sec. cor. to sec. 6. marked 1/4 S. 6. on E. face raised a mound of stone 2 ft. base, 1 1/2 ft. high E. of cor. Pits impracticable.
784.5	Prescott & Stevens Ranch house bears $N. 34^{\circ} 30' E.$
80.10	Wire fence bears $E. 64^{\circ} 43' N.$ Irrigation ditch, course $N. 34^{\circ} 30' E.$ set a sand stone 16 x 8 x 5 ins. 11 ins. in the ground, foot

West bdy. of R. 25 S., R. 25 E. continued.

chains

re-established cor. to sec.
16^{and} 7.

marked with 1 notch on N. and
5 notches on S. edges. raised
a mound of stone 2 ft. base,
1 1/2 ft. high E. of cor.

Its impracticable
after diligent search no trace
of the old sec. cor. can be
found.

Land, rolling,
soil, stony.
no timber.

So. 05' N.

Along W. bdy. of R.
and Sec. 7.

40.05 Ascending over rolling land,
set a sand stone 15x10x8 ins
10 ins. in the ground for
re-established 1/4 sec. cor. to sec.
7. marked 1/4 S. 7 on E. face.
raised a mound of stone 2 ft.
base, 1 1/2 ft. high, E. of cor.
Its impracticable.

After diligent search no trace
of the old 1/4 sec. cor. can be found.

57.00 Dry wash. To 12 deep, course N.E.
63.00 Enter heavy cedar and pinon
timber break E. and N.

80.10 The old cor. of secs. 7, 12, 13, and 18,
previously described.

141 Obliterate all marks pertaining
to R. West.

143.0 And reset sand stone 15x8x4
ins 10 ins. in the ground for
the cor. of sec. 7 and 18.

R. 25 S. R. 25 E.

West bdy. of T. 25 S., R. 25 E. concluded.

V

Chains

Dome which a. Cedar 17 ins. in diam.
beams N. 45° E. 110 lbs. dist. marked
T. 25 S. R. 25 E. S. 7 B. S.

A Pinon 6 ins. in diam. bears
S. 60° E. 23 lbs. dist. marked T. 25 S.
R. 25 E. S. 18 B. S.

Sand, rolling.

Soil, stony ^{3rd} rate.

Timber, heavy Cedar & Pin on

Heavily timbered. 1410 Chs.
Jan. 28th 1901.

For general description see
Subdivisions of this sp.

Liberator & Liberator U.S.
Deputy Surveyor Commissioner for
James M. Farley, U.S.
Deputy Surveyor.

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____ showing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all those parts or portions of the _____ of the _____ meridian, _____ of _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

scribed and sworn to before me this _____
day of _____, 189 }



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, bearing date of the _____ day of _____, 18_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____.

of the

meridian, in the *W.* of *.....*, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for *.....* and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this day of _____, 189 }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salk Lake City, Utah, June 14, 1902. 150

The foregoing field notes of the survey of the West Boundary of Section 25 S. R. 25 E.
of the Salk Lake Baseline Meridian, Utah.

executed by *Robert F. Pease*, Surveyor, having performed the work, as specified therein,
under his contract No. 38, dated March 11th, 1900, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and the
resurveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, _____, has been correctly copied from the original notes on file in this office.

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BOOK A-281

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FIELD NOTES

X.3.13.
OF THE SURVEY OF THE

*South
boundary of
Township No. 24 South
Range No. 24 East*

*of the Salt Lake base and Meridian,
In the state of Utah.*

AS SURVEYED BY
*Albert D. Page, U.S. Deputy Surveyor,
Surveyor of the Government, Wyoming, United States Deputy Surveyor,
under his Contract No. 238, dated March 14th, 1900, 189*

Survey commenced January 29th 1901, 189

Survey completed January 29th 1901, 189

6-161

*W. - low 2.00-04'
high 40-00'*

NAMES AND DUTIES OF ASSISTANTS.

Peter Meyer Chairman

Hale Cherry "

Joseph Rasmussen Groundman

Wm Lyman Alman

John Baker Flag man

Free library offered to school K. Sp. 25 S. R. 25 E.

BOOK A-281

INDEX DIAGRAM.

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE and
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

....., *Chainman.*

....., *Chainman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

....., *Moundman.*

....., *Moundman.*

Subscribed and sworn to before me this }
day of , 189 }



WE, and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

....., *Axman.*

....., *Axman.*

Subscribed and sworn to before me this }
day of , 189 }



I, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

....., *Flagman.*

Subscribed and sworn to before me this }
day of , 189 }



resurvey.

South bdy. of T. 24 S., R. 24 East.

Chains.

Survey commenced

Jan. 29th, 1901.

And executed

with the instrument described
in book A of this survey.

I know the instrument to
be in adjustment from
recent test made,
at the cor. of T. 25nd 26 S.

Rs. 23rd 24^E

And recorded in book H.

At 8 a.m., L. m. t., I
set off 38° 4' N. on dat. arc:
17° 56' S. on decl. arc; and de-
termine a true meridian
with the solar, at the
cor. of Rs. 24rd 25 S., Rs. 24rd 25 E,
previously described.

From the bad condition
in which I have found
the cor.s in this vicinity
I deem it necessary to
continue my retracement
West along the S. bdy. of
this Tp.

West over a blank line
along the S. bdy. of Tp.
and Sec. 36.

40.00 after diligent search
no trace of the old sec.
cor. can be found.

9995 chs. I find the old sec.
cor. which is a sandstone
16 x 8 x 3 ins. in a mound of
stone marked as described
by the surveyor General.
N. 10 lbs.

South bdy. of T. 24 S., R. 24 E. continued.

Chains The course of this line is therefore N. 89° 56' 37".
Reset old cot. Stone 11 ins. in the
ground, mark for T. 24 S. R. 24 E. only,
and raise a mound of stone 2 ft.
base, $1\frac{1}{2}$ ft. high N. of cot.
It's impracticable.

I continue my retrace ment
West.

1120 chs. after diligent search
no trace of the old $\frac{1}{4}$ sec. cot.
Can be found.
and th.

160.04 chs. I find the cot. of
secs. 2, 3, 34 ~~E~~ ^W 25.

which is a sand & stone footly
set. $1\frac{1}{2} \times 1.0 \times 4$ ins. in mound
of stone. marked as described
by the Surveyor General.
Reset same stone 11 ins. in
the ground and
marker for secs 34 & 35. If 24 S. R. 24 E
only. and raise a mound of
stone 2 ft. base, $1\frac{1}{2}$ ft. high
N. of cot. It's impracticable.
I continue my line West.

Along S. bdy. 700.00 chs. No trace of the
old $\frac{1}{4}$ sec. cot. can be found.

Therefore I retrace my
the South bdy. of this
T.P. as follows:

Beginning at the cot. of
T.P.s. 24 ~~E~~ ^W 25 S. R. 24 ~~E~~ ^W 25 E.
Previously described.

I run

N. 89° 56' 37" on a true line
along the S. bdy. of sec. 36
and this T.P.

Gives rolling land.

Dry West. 20 ft wide 10 ft deep
course N.

South bdy. 2d. 24 S., R. 24 E., Continued.

Chains.	
17.00	Hick fence, bears N. ^{and} S. E.
37.15	Old Road, bears N. ^{and} S. E.
39.70	Hick fence, bears N. ^{and} S. E.
39.975	Set a sand stone 15x8x5 ins. 10 ins. in the ground for re-established $\frac{1}{4}$ sec. cot. Marked $\frac{1}{4}$ S. 36 on N. face. raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of cot. Pits impracticable. After diligent search no trace of the old $\frac{1}{4}$ sec. cot. can be found.
47.70	Hick fence, bears N. ^{and} S.
54.77	Irrigation ditch, bears N. ^{and} S.
67.90	Rash, 6 ft. deep, 15 ft. wide course N.
68.80	Rash, 10 ft. deep 15 ft. wide course N.
79.95	The cot. of sec. 35 ^{and} 36 Previously described. Land rolling, Soils stony. 2nd rate. No timber.

Jan. 29th 1900

At this cot. I set off
17° 55' S. on decl. arc; and at
0h. 13 m. p. l. on d., above
the sun on the meridian
the resulting lat. is 38° 41' N.

West on
S. bdy. of sp.
and sec. 35.

Ascending over rolling land.
Hick fence, bears N. ^{and} S.
Enter heavy Cedar and pinon
timber, bears N. ^{and} S.

648

16.75

South bdy. of T. 24 S., R. 24 E., continued.

Chains	
77.30	Bottom of ravine, 75 ft. deep. course N.E.
76.00	Leave heavy timber, beaus N.E. enter dense artemesia.
40045	Set a sand stone 16 x 10 x 4 ins. 11 ins. in the ground, for re-established $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 35 on N. face, raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high. N. of cor. Pits impracticable. After diligent search no trace of the old $\frac{1}{4}$ sec. cor. can be found.
41.00	Dry ravine 40ft. deep. course N.E.
65.75	Enter heavy Cedar and Pinion beaus N.E. S.
67.65	Bottom of ravine 100ft. deep. course N.E.
69.50	Leave timber, beaus N.E. S.
80.09	The cor. of secs. 34 and 35 Previously described. Land, rolling soil stony $\frac{2}{3}$ to $\frac{3}{4}$ plate, Timber, cedar and pinon.

West
Along bdy of Tp.
and Sec. 34.

Descending over rolling land
through dense artemesia.

4.00	Cells scattering cedar and pinon timber.
5.60	Ravine 75 ft. deep. course N.
20.00	Ravine 50ft. deep. course N.E.
40.00	After diligent search no trace of the old $\frac{1}{4}$ sec. cor. can

South bdy. of T. 24 S., R. 24 E., concluded.

Chains,

Be found.

Seba sand stone 15x8x4 ins.
10 ins. in the ground, for
re-established 1/4 sec. cor.
Marked 1/4 S. 34 on N. face,
raised a mound of stone 2 ft.
base, 1 ft. high. N. of lot.

Pits impracticable
Land, rolling
Soil stony ^{3rd} rate.
Timber, Cedar ^{and} pinion.
Density under growth 4000 cho.

Jan 29th 1901.

For general description see
Subdivision. T. 24 S. R. 24 E.

Hubert D. Page, U.S.
Deputy Surveyor & Commissioner for
James W. Lentz, U.S. Deputy
Surveyor.

There being no Notary public or
other officer authorized to administer
oaths within reasonable distance
at the beginning or end of the survey.
In order to save time and expense,
I administered the preliminary and
final oaths myself.

Hubert D. Page,
U.S. Deputy Surveyor

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D Page, ^{Deputy Surveyor} Compassman James M. Lentz, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the 1st. bdy. of 2d. 25 S., R. 24 E. of the Salt Lake base meridian, In the state of Utah. showing the respective capacities in which they acted:

Peter Meyer Chainman.
Hale Cherry Chainman.
Joseph Rasmussen, Moundman.
Vern Lyman, Arman.
John Baker Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D Page, ^{Deputy Surveyor} Compassman James M. Lentz, United States Deputy Surveyor, in surveying all those parts or portions of the 1st. bdy. of 2d. 25 S., R. 24 E. 3rd. S. bdy. of 2d. 24 S., R. 24 E. of the Salt Lake

base and of the
meridian, In the State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for that

Peter Meyer Chainman.
Hale Cherry Chainman.
Joseph Rasmussen Moundman.
Vern Lyman Arman.
John Baker Flagman.

scribed and sworn to before me this 29th day of January, 1891 }

Hubert D Page
U.S. Deputy Surveyor



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D. Page, United States Deputy Surveyor, James M. Long, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob W. Howland, United States Surveyor General for the District of Columbia, bearing date of the 1st day of March, 1890, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the District of Columbia, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Survey of the South Boundary of the District of Columbia, T. 25 S. R. 25 E., G. S. Surveyor of the District of Columbia.

Base and meridian, in the State of District, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the District of Columbia, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Hubert D. Page, U.S. Deputy Surveyor, Commissioner for
James M. Long,
United States Deputy Surveyor.

Subscribed by said Hubert D. Page, and sworn to before me }
this 1st day of December, 1902. }



Edward Henderson,
U.S. Surveyor General for the District of Columbia

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Hubert D. Page, U.S. Deputy Surveyor, Commissioner for James M. Long, United States Deputy Surveyor General for the District of Columbia, T. 25 S. R. 25 E., dated March 14, 1890, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Henderson,
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-281

FIELD NOTES

OF THE SURVEY OF THE

*South boundary of
Township No. 24 South
Range No. 24 East*

*of the Salt Lake base ^{and} Meridian,
In the state of Utah.*

*Hubert D. Page, 1st. Deputy Surveyor
Commissioned by James McLeny, United States Deputy Surveyor,
under his Contract No. 238., dated March 14th, 1890*

Survey commenced January 30th 1901, 1891

Survey completed January 30th 1901, 1891

G-101

High. 2.40-00'

NAMES AND DUTIES OF ASSISTANTS.

Peter Preyger Chairman

Hale Cherry "

Joseph Rasmussen Groundsman

Henry Lyman Chairman

John Baker Flagman

BOOK A-281

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Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, Peter Meyerand Jay Morrison

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

S. bdy. of 924 S., R. 246, E. 1/2 N. bdy. of 925 S., R. 256, of the Salt Lake base and meridian in the state of Utah.

Peter Meyer

, Chainman.

Jay Morrison

, Chainman.

Subscribed and sworn to before me this 30thday of January, 1891Hubert D. Page

U.S. Deputy Surveyor

WE, Joseph Rasmussen and

do solemnly swear that we will well and truly perform the duties of moundman in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

S. bdy. of 924 S., R. 246, E. 1/2 N. bdy. of 925 S., R. 256, of the Salt Lake base and meridian in the state of Utah.

Joseph Rasmussen

, Moundman.

, Moundman.

Subscribed and sworn to before me this 30thday of January, 1891Hubert D. Page

U.S. Deputy Surveyor

WE, Verri Lyman and

do solemnly swear that we will well and truly perform the duties of axman in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

S. bdy. of 924 S., R. 246, E. 1/2 N. bdy. of 925 S., R. 256, of the Salt Lake base and meridian in the state of Utah.

Verri Lyman

, Axman.

, Axman.

Subscribed and sworn to before me this 30thday of January, 1891Hubert D. Page

U.S. Deputy Surveyor

I, John Baker

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

S. bdy. of 924 S., R. 246, E. 1/2 N. bdy. of 925 S., R. 256, of the Salt Lake base and meridian in the state of Utah.

John Baker

, Flagman.

Subscribed and sworn to before me this 30thday of January, 1891Hubert D. Page

U.S. Deputy Surveyor

South bdy. of T. 24 S., R. 24 East.

Chains.

Survey Commenced.

Jan 30th 1901.

and executed
with the instrument described
in book "A" of this survey.

I know the instrument to
be in adjustment from recent
test made.

At the cor. of T. 25 S. 26th

Rd. 23rd 24th E.

And recorded in book "H"

At 8 a.m., l. m.t., I
set off 38° 41' N. on decl. arc;
173° 51' S. on decl. arc; and de-
termine a true meridian
with the solar, at the $\frac{1}{4}$
sec. cor. of sec. 34, on S. bdy.
of T. previously described.

Hence I run

West on the S. bdy. of T.
and sec. 34 with continuous measurements.

45.00 Foot of Mountain, begin steep
ascent over broken ledges
and sandstone boulders.
Through heavy Cedar and pine
timber, (scrubby!)

53.00 Dry run, drains W.

falls on ground subject to
slide. 400 ft above foot of Mt.

Set a sand stone 16 x 10 x 4, ins.

11 ins. in the ground, for
cor. of secs. 33rd 34

marked with 3 notches on the
E. & W. edges,

raised a mound of stone 2 ft. base
11/2 ft. high N. of cor.

Pits impracticable.

South bdy. of R. T.H.S., R. 248, continued

	Chains	Land, rolling and mountainous Soil, stone ^{4 to 5 ft.} rate Timber, Cedar ^{and fir} on mountainous land ^{and} dense undergrowth 4000 chs
		West on S. bdy. of sp and sec. 33.
750		Ascend over broken sand stone ledges and boulders, through heavy scrub pine and cedar Root of perpendicular sand stone cliffs 300 ft. high, bear N.W. and S.E.
900		Top of cliffs, and rim rock. Set at Hiltless cor. to sec. 33 and 34.
		A sand stone 16 x 12 x 4 ins. 11 ins. in a mound of stone and earth marked N.C. on N.W. face, with 3 notches on E. and N. edges. Raised a mound of stone 7 ft. base, 1 1/2 ft. high. N. of cor. Pits impracticable.
		Ridge bears N.W. and S.E. descnd.
1600		Dry wash. course S.P.
1750		Ravine 300 ft. deep. course S.
		Ascend over broken sand stone ledges.
3650		Top of sand stone ledge bears N. and S.
4000		Set a sand stone 16 x 12 x 6 ins. 11 ins. in the ground for 1/4 sec. cor. to sec. 33. marked N.W.S. 3 ³ on N. face raised a mound of stone 7 ft.

7th bdy of 9.24 S. R. 24 E. continued

3000	base 1 1/2 ft. high. N. of Col. Gets impracticable.
3300	East side of box canon 600 ft. deep. Course S 40° 27' N.W. side of same canon Course S 40° 27'.
3600	Set a sand stone 16 x 10 x 5 ins. 11 ins. in the ground, for Col. of sec. 32 sec 33 marked with 4 notches on the E. and 2 notches on the W. edges, raised a mound of stone 2 ft. base 1 1/2 ft. high. N. of Col.
4000	Gets impracticable. Land, mountainous Soil, stony. 4th rate. Timber, Cedar and pinon. Jan 30th; Mountainous land 8000 chs.
	At this Col. I set off 17° 39' S. on decl. acc. and at 01013 m.p.m. l.m.t., observe the sun on the meridian the resulting lat. is 38° 41' N.

Nest

Along the S. bdy. of 9p.
and sec 32.
Dust broken land, scattering
cedar and pinon

4000	Set a sand stone 14 x 17 x 4 ins. 10 ins. in the ground for 1/4 sec. Col. marked 1/4 S 37' on N. face, raised a mound of stone 2 ft. - base, 1 1/2 ft. high N. of Col.
	Gets impracticable

South bdy. of G. 24 S., R. 24 E. concluded.

Chs.	
60.00	Meet edge of River rock, bearing N. 45° E. S. E. As sec. cor. will fall on ground subject to slides
-	Set a witness cor. as follows: a sand stone 17x10x5 ins. 11 ins. in the ground, for witness cor. to secs. 31 & 32. Marked N.E. or N.W. faces with 5 notches on E. and 1 notch on W. edges. raised a mound of stone 2 ft. base, 1 1/2 ft. high. N. of lot. Pits impracticable.
80.00	Falls on inaccessible ground, and line from this cor. cannot be run, owing to a series of broken ledges and cliff descending about 1000 ft. to bottom of Rock Cut Canyon. Therefore I abandon work further N.E. S. Land, mountainous Soil, stony, ^{11th} rate Timber, Cedars and pine on. Mountainous land, on 80.00 chs.
	Jan 30 th 1901.

For General description see
Subdivision.

Gibert D. Page, U.S.
Deputy Surveyor of Commissary for
James M. Lentz, U.S. Deputy Surveyor

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by _____, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of _____, wing the respective capacities in which they acted:

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted _____, United States Deputy Surveyor, in surveying all parts or portions of the _____, of the _____, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for _____.

_____, Chainman.

_____, Chainman.

_____, Moundman.

_____, Moundman.

_____, Axman.

_____, Axman.

_____, Flagman.

scribed and sworn to before me this _____ day of _____, 189 _____



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, _____, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from _____, bearing date of the United States Surveyor General for _____ day of _____, 189_____, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for _____, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of _____ of the _____ meridian, in the _____, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for _____, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

United States Deputy Surveyor.

Subscribed by said _____, and sworn to before me }
this _____ day of _____, 189_____ }



APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, Utah, June 14, 1902.
The foregoing field notes of the survey of the N.W. Boundary of Twp 24 S.
R. 24 E. of the Salt Lake Basal Meridian, _____, _____,

executed by *Robert Hayes*, Deputy Surveyor, pursuant to contract No. 2381, dated March 14, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward M. Anderson
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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4-679.

N.

75-24

BOOK A-281

FIELD NOTES

OF THE SURVEY OF THE

Subdivision

of

Township No. 25 South

Range No. 24 East

of the Salt Lake base and Meridian,

In the State of Utah.

Hubert D. Page, U.S. Deputy Surveyor or Compassman
James M. Lentz, United States Deputy Surveyor,
under his Contract No. 738, dated March 14th, 1890

Survey commenced January 27th, 1890,
Survey completed February 10th, 1890.

	M. D. S. -
Suds - High	49-17-97 ✓
" low	1-52-23 ✓ 50° 70' "
Cloudy -	1-09-03 ✓

NAMES AND DUTIES OF ASSISTANTS.

John Day Chairman

Harvey D. Frist "

Oscar Allred ground man

Oscar Allred alman

BLOCK A-287

INDEX DIAGRAM.

Township _____, *Range* _____

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page _____

PRELIMINARY OATHS OF ASSISTANTS.

WE, John L. Troy and Harry D. Peck,
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level a
chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that
we will report the true distances to all notable objects, and the true lengths of all lines that we assist
measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey
Subdivision of T. 25 S., R. 24 E., of the said Lake, tree and meridian,
State of Utah.

John L. Troy, Chainman
Harry D. Peck, Chainman

Subscribed and sworn to before me this 19th
day of January, 1801 } {



Herbert D. Page,
U.S. Deputy Surveyor

WE, Orson Alred and
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment
of corners, according to the instructions given us, to the best of our skill and ability, in the survey
Subdivision of T. 25 S., R. 24 E., of the said Lake, tree and meridian,
State of Utah.

Orson Alred, Moundman

Subscribed and sworn to before me this 19th
day of January, 1801 } {



Herbert D. Page,
U.S. Deputy Surveyor

WE, Orson Alred and
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corne
and other duties, according to instructions given us, to the best of our skill and ability, in the survey
Subdivision of T. 25 S., R. 24 E., of the said Lake, tree and meridian,
State of Utah.

Orson Alred, Axman

Subscribed and sworn to before me this 19th
day of January, 1801 } {



Herbert D. Page,
U.S. Deputy Surveyor

I, do solemnly swear that I will well and truly
perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the
survey of

Flagman

Subscribed and sworn to before me this
day of January, 1801 } {



Subdivisions of T. 25 S., R. 24 E.

Chains.

Survey Commenced
January 27th 1901.And executed with the
instrument described in book
A of this survey.I know the instrument to be
in adjustment, from recent
test made.At the cor. of T. 25th S.,
R. 24 E.

And recorded in book A.

At the cor. of sec. 35th
 36 T. 25 S., R. 24 E. on the south
 boundry of the township,
 buts for described
 In Lat. $38^{\circ}35'36''$ N. Long. $109^{\circ}14'52''$ W.

At 8 a.m., I set
 off $38^{\circ}36'N.$ on lat. acc; $18^{\circ}28'S.$
 on decl. acc; and determined a
 true meridian with the
 sextant.

Hence I run
 N. $001'W.$ th. sec. 35th 36.
 Ascending over rolling foot hills
 along the west side of ridge,
 through dense oak, *Antennaria*
 tops of knole.
 Enter heavy aspen timber
 bears $E. 34^{\circ} W.$
 Set a sandstone $24 \times 13 \times 5$ ins.
 in a mound of stones. for test.
 Cor. marked $\frac{1}{4} 5.35$ on N. 30 on E faces.
 From which an aspen 6 ins. in
 diam. bears $S.85^{\circ}E.$ 52 lbs. dish.
 Marked $\frac{1}{4} 5.36$ B.T.

Subdivisions of T. 25 S., R. 24 E., continued.

Chains	
	An aspen 1.2 ins in diam. bears S. 35° 27'. 115 lbs. dist. marked T. 25 S. 35 B. 9.
40.10	Bottom of ravine, 100ft deep, drains N. W. 1/4.
249.00	Bottom of ravine, 100ft deep, drains N. W. 1/4. Same heavy aspen timber, enter scattering aspen and pine timber.
65.50	Bottom of ravine 100ft deep. drains N. W. 1/4.
80.00	Set a sand stone 18x12x6 ins. 12 ins. in the ground, for cor. of secs. 25, 26, 35 ^{and} 36. marked with one notch on the S. 35° E. edges. From which a pine 18 ins. in diam bears N. 43° 30' E. 115 lbs. dist. marked T. 25 S. R. 24 E. S. 25 B. 9. A. pine 18 ins. in diam, bears S. 86° E. 18 lbs. dist. marked T. 25 S. R. 24 E. S. 26 B. 9 An aspen 6 ins. in diam, bears S. 73° W. 66 lbs. dist. marked T. 25 S. R. 24 E. S. 35 B. 9. An aspen 5 ins in diam. bears N. 81° 30' W. 65 lbs. dist. marked T. 25 S. R. 24 E. S. 26 B. 9 Land, mountainous Soil, stony, ^{eroded} eroded ^{and} eroded erate. Timber, aspen and pine. Dense undergrowth. Mountainous 80.00 chs.

East on a random line bet. secs. 25 ^{and} 36.

40.00	Set temp. 1/4 sec. cor.
53.79	Entered E. bdy of township 195 Chs. N. of the cor. of secs. 25, 30, 31 ^{and} 36 which is a sand stone 10x10x5 ins. above ground, firmly set and marked as described by the Surveyor General,

Subdivisions of T. 25 S., R. 24 E., continued.

Chains	<p>Digged mound of stone 2 ft base $\frac{1}{2}$ ft high. E. of cor. and mark an aspen tree in Indian bear S 28° 15' E. 5 ft dist. marked T. 25 S. R. 25 E. sec. 31 B.G. The falling being in excess of the prescribed limits. Set an. aspen post 3 ft. long 4 ins. sq. 24 ins in the ground for closing cor. to sec. 25 ^{and} 36. marked C.C. T. 25 S. R. 24 E on N. S 25 on N. ^{and} 36 on S. faces. with 59 paces on N. ^{and} 19 on S. faces.</p> <p>Dig pits 24 x 18 x 12 inches each line N ^{and} S. 3 ft and N. 7 ft. dist.; and raised a mound of earth 4 ft. base, $\frac{1}{2}$ ft. high. N. of cor. Thence I run West on a true line bet. secs. 25 ^{and} 36.</p> <p>Ascending, through dense timber and oak brush.</p>
12.80	Enter scattering aspen timber bears N. ^{and} S.
13.79	<p>Set a post and stone 16 x 10 x 4 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 25 on N. 36 on S. faces,</p> <p>From which an aspen 4 ins. in diam bears N 45° E. 14 ft dist. marked $\frac{1}{4}$ S 25 B.G.</p> <p>No other suitable trees within proper limits.</p> <p>After diligent search no trace of old $\frac{1}{4}$ sec. cor. can be found.</p>
33.75	Top of ridge ^{and} mountain bears N. ^{and} S. descend.
34.75	Dry lake, bears E & N. 6 hrs wide. 300 ft. N. ^{and} S.

Subdivisions of T. 25 S., R. 24 E., Continued.

Chains

	Enter for attiring pine timber beams N. ^{end} of sec.
- 53.79	the cor. of secs. 25, 26, 35 ^{and} 36. After diligent search no trace of old sec. cor. can be found. Land, mountainous soil, stony, ^{3d and 4th} rate, timber, aspen, pine. Dense undergrowth ^{and} mountainous 53.79 chs.

	No. 0°01' N. bet. secs. 25 ^{and} 26. Along the west side of mountain ridge, through dense oak brush scrubby pine . Begin steep descent over broken sandstone ledges. Bear N.E. ^{end} S. N. End of steep descent. Leave ledges.
6.50	Bottom of Ravine 400 ft. below sec. cor. Course N. Ascend set a sandstone 18x8x6 ins. 12 ins. in the ground, for 1/4 sec. cor.
13.00	marked 1/4 S. 26 on N. 25 on E. faces. which a fine 18 ins. in diam. B.P. a fine 30 ins. in diam. bears S 10° W. 28 lbs. dist. marked 1/4 S. 26 B.P.
39.00	Spur projects S. W. leave fine I descend.
40.00	set a sandstone 20x9x5 ins. 15 ins. in a mound of stone, marked with 2 notches on the S. and 1 notch on the E. raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. bits impracticable.
70.00	Land, mountainous soil, stony. ^{2nd and 3rd} rate, timber, pine. Dense undergrowth ^{and} mountainous 8 ins.
- 8.00	

Subdivision of G. 35 S., R. 24 E. Continued.

Mains.

- Cast on a random line bet.
sec. 24 ^{and} 25
- set temp. 14 sec. col.
Intersc. E. side. of sp. 180 chs. N.
of the Col. of sec est. 19. 24, 25 ^{and} 30.
which is a sand stone 14x12x6 ins
formerly set and marked as de-
scribed by the Surveyor General.
rebuilt mound 2 ft base.
1 1/2 ft. high E. of Col.
Pits impracticable.
- The falling is in excess of the
prescribed limits
Set a sand stone 24x12x8 ins.
in a mound of stone. for Closing Col.
to sec 24 ^{and} 25. marked C. C. on N.
with 2 grooves on the S. and 4 grooves
on N. faces, raised a mound of stone
2 ft. base 1 1/2 ft. high. N. of Col.
Pits impracticable.
- Thence I went
West on plain line bet. sec 24 ^{and} 25
Descending through dense
alderwood and oak brush.
- Enter aspen timber, bears N. & S.
Bottom of ravine. 300 ft. below Col.
course N. ascend
- Set a sand stone 14x 8x5 ins.
10 ins. in the ground for 1/4 sec.
Col. marked 1/4 S. 24 on N. 25 on S.
faces, from which an aspen
8 ins. in diam. bears N. 5° W. 22 lbs.
dish. marked 1/4 S. ^{and} B. J.
- An aspen 8 ins. in diam. bears
S. 7° E. dish. marked 1/4 S. 25 - B. J.
- Leave aspen
bears N. ^{and} S.
- Trail bears N. ^{and} S. E.
- Top of high mountain ridge.

Sub-division of T. 25 S., R. 24 E. Continued.

Chains	
	Brown as Fisher Point. Beds N. ^{3d} S. descend.
54.04	The cor. of secs. 23, 24, 25 ^{and} 26. Land, mountainous Soil, stony. 3rd ^{3d} plate. Timber, Asper Mountainous ^{and} dense Undergrowth 5404 chs.
	January 27 th
	Isch of 1827 S. on decl. acc; and at 15 th pm. C.M.T., observe the sun on the meridian the resulting lat. is. 38°37'
24.0	N. 0°0' 77. bet. secs. 23 ^{and} 24. Descending, through dense artemesia and oak brush. Trail, beds N. E. ^{and} S. W.
11.00	Top of ridge bears N. E. ^{and} S. W.
44.00	Set a sand stone 24x7x5 ins. 18 ins. in a mound of stone. for ^{1/4} set. Cor. marked 1/4 S. 23 on N. 24 on E. faces, raised a mound of stone. 3 ft. base, 1/2 ft. high. N. of lot. Pits impracticable.
44.50	Bottom of ravine, 400 ft. below sec. cor. drains N. W.
43.00	Enter large scattering pine timber beds E. ^{and} W.
63.65	Top of steep descent, over ledges of sand stone bear E. ^{and} W. sec. cor. will fall on steep, ground subject to slides, therefore at this point, set a sand stone 15x15x6 ins. 6 ins. in the ground. for witness Cor. 7. to secs. 13, 14, 23 ^{and} 24. marked N.C. on N. E. face, with 3 notches

Subdivision of T. 25 S., R. 24 E.; Continued.

Chains.

on the S. and 1 notch on the E. edges.
raised a mound of stone 2 ft. base
 $1\frac{1}{2}$ ft. high. S. of C. 9, from which a
Pine 10 ins. in diam. bears S. 22° W.
74 lbs. dist. marked T. 25 S., R. 24 E.,
S. 23, N.C. B.G.

80.00 set a sandstone 15x10x4 ins.
10 ins. in the ground, for C. of
secs. 13, 14, 23 ^{and} 24. marked
with 3 notches on the S. and 1 notch
on the E. edges. raised a mound
of stone 2 ft. base, $1\frac{1}{2}$ ft. high N.
of C. 9. It's impracticable.
Land, mountainous.
Soil stony. 3 rd ^{and} 4 th plate.
Timber, pine
Mountainous ^{and} dense
Undergrowth 80.00 Chs.

East on a random line bet. secs
13 ^{and} 24.

40.00 set Temp. 44 sec. C. of.
53.85 Intersect E. bdy. of 1 p. 1.85 lbs. N.
of the C. of secs. 13, 18, 19 ^{and} 24.
which is a sandstone 12x8x4 ins.
above ground, firmly set. marked
as described by Surveyor General.
Rebuilt mound of stone 2 ft. base,
 $1\frac{1}{2}$ ft. high E. of C. 9.
It's impracticable

The falling is in excess of the pre-
scribed limits.

set a sandstone 16x8x4 ins. 11 ins.
in the ground for Closing C. of.
To secs. 13 ^{and} 24. marked C. C. on
N. with 3 grooves on N. ^{and} S. faces.
raised a mound of stone 2 ft. base,
 $1\frac{1}{2}$ ft. high. N. of C. 9.

Subdivision of T. 25 S., R. 24 E. Continued.

Chains	
	West on fine fine bed seas 13 ^{and} 24 descending, through dense oak brush over broken rock hills.
13.85	Set a sand stone 16x7x5 ins. 11 ins. in the ground for 1/4 sec. col. marked 1/4 S 13. on N. 24 on 8 faces raised a mound of stone 2 ft. base 1 1/2 ft. high N. of col. Bits impracticable.
24.00	Bottom of canon 500 ft. deep. course N. as cnd.
53.85	The col. of secs. 13, 14, 23 ^{and} 24. Land, mountainous. Soil, stony clay. 4 th plate. No timber. Mountainous land. 53.85 ches.

January 28th, 1901

At 8 a.m., l.m.t., I set off 38° 38' N. on lat. arc. 18° 12' 5" on decl. arc. and determine a true meridian with the polaris. at the col. of secs. 13, 14, 23^{and} 24. Then I turn

No. 01' N. bet. secs. 13^{and} 14.

Descending, along the E. side of mountain over broken sand stone ledges ^{and} boulders, ^{and} scattering Adair pines.

Set a sand stone 16x10x4 ins. 11 ins. in the ground, for 1/4 sec. col. marked 1/4 S 14 on N. 13 on E. faces. raised a mound of stone 2 ft. base, 1 1/2 ft. high 2 ft. off col. ^{impracticable} 850 ft. below sec. col.

Dry run 400 ft. deep. Course N. E.

Set a sand stone 15x14x3 ins. 10 ins. in the ground. for col. of secs. 11, 12, 13^{and} 14. marked with 4 notches

Subdivision of T. 25 S., R. 24 E. continued.

Chains	On S. and 1 notch on E. edges. From which a pin on pine 4 ins. in diam. bears N. 40° E. 42 lbs. marked T. 25 S. R. 24 E. S. 12 B.G.
	A Pin on 10 ins. in diam. bears S. 50° E. 60 lbs. dist. marked T. 25 S. R. 24 E. S. 13 B.G.
	A Cedar 8 ins. in diam. bears S. 88° W. 21 lbs. dist. marked T. 25 S. R. 24 E. S. 14 B.G.
	A Pin on 5 ins. in diam. bears N. 65° W. 48 lbs. dist. marked T. 25 S. R. 24 E. S. 11 B.G.
	Land Mountainous.
Soil, Stony	4th rate
Timber, Cedar & Pinon.	
Mountainous land	80.00 dchs.
110.00	East on a random line bet. sec. 11 & 13.
53.70	Set temp. 14 sec. C. cor. Intersect E. bdy. of Tp. 180 chs. No. 8058 of the cor. of sec. 11, 12, 13 & 18. Which is a sand stone 14 x 8 x 4 ins. lying loose on the ground marked as described by the Surveyor General, re-set & marked by me in survey of N. bdy. of Tp. 25 S. R. 25 E.

Jan. 31st 1901.

At 8 a.m., G.M.T. I sit off 28° 39' N
on lat. acc. 17.23 S. on decl. acc. and
determine a true meridian with
the polar, at the intersection
of the line bet. sec. 12 & 13.
and the E. bdy. of Tp.

Set a sand stone 20 x 8 x 4 ins. 15 ins.
in the ground for closing Cor.
acc. 1, 2 & 3.

Marked C.C. on it with 4 grooves on S. and
2 on N. faces. From which a Pin on
7 ins. in diam. bears S. 55° W. 30 lbs. dist.
marked T. 25 S. R. 24 E. S. 13 B.G.

A Cedar 12 ins. in diam. bears

~~W.W. 1900~~

Subdivision of Twp S., R. 24 E. continued.

Ground

- 11.64° N. 30' lks. dist. marked
Twp S. R. 24 E. S. 12 P. T.
Thence down spurs on a true line
bet. secs. 12nd & 13.
- Descending through heavy Cedar
and Pinon timber
- 11.50Leave timber bears N. 45° S.
begin abrupt descent.
- 13.70 Dry Ravine 100ft deep. course N.
ascend.
- 13.70 Set a sand stone 20x10x6 ins. 15
ins. in the ground ^{and mound of stone},
for 1/4 sec. cot. marked 1/4 S. 12 on
N. 13 on S. faces, raised a mound
of stone off. base, 1/4 ft. high.
M. of cot. Pits impracticable.
Ascend over rolling land.
- 31.00 Dry run course N.
- 42.00 Enter heavy Cedar ^{and} Pinon Timber
Bears N. 45° S.
- 48.00 Spur, projects N. 60° ft above 1/4 sec. cot.
- 50.50 Ravine 100ft deep. course N.E.
- 53.70 The cot. of secs. 11, 12, 13 ^{and} 14.
Sand, mountainous
soil, stony 4th rate
Timber, Cedar ^{and} Pinon on
mountainous land 53.70 chs.
- 50.00 1/4 bet. secs. 11 ³/₄ 12, Descending over broken
hill through heavy timber.
- 55.00 Foot of Mt. leave timber enter dense sage brush
72.97 ^{and} 1/6.
- 61.00 Set a sand stone 16x10x5 ins. 11 ins. in the
ground, for 1/4 sec. cot. marked 1/4 S. 11 on N. 12
E. faces, raised a mound of stone 3 ft. base 1/4 ft.
high 7 ft. off cot. Pits impracticable.
- 62.00 Dry ravine 100ft deep. Course N. N.
- 63.00 Set a sand stone 16x10x8 ins. 11 ins. in the ground
for cot. of secs. 1, 2, 11 ³/₄ 12, marked with 5 notches
on the S. and 1 notch on E. edges, raised a mound

Subdivision of 9 1/2 S., R. 24 E. continued.

		of stone 2 ft. base $1\frac{1}{2}$ ft. high N. of col. Beds impracticable This cor. is 600 ft. below the col. secs 11, 12, 13 $\frac{3}{4}$, 14.
		Sand, mountainous. Soil, stony 14 th rate. Timber heavy Cedars ^{and} fir on mountainous land 8000 Chs.
		East on a random line bet. sec. 1 nd , 2.
4000		set temp. 1/4 sec. cor.
53.87		Intersect E. bdy. of sp. 1.808 N.W. of the re-established cor. of secs. 6, 9, 7. ^{but you will see why} 1.808, P. 25, R. Set a sandstone 16 x 9 x 4 ins. 11 ins. in the ground for closing cor. to secs 1 nd , 12. marked C.C. on W. with 5 grooves on S. and 1 groove on N. faces raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of col. Beds impracticable Hence I run
		West on a true line bet. secs. 1 nd , 12. Ascending over rolling land.
10.75		old wagon road, bears N. $\frac{3}{4}$ S.
13.87		Set a sandstone 18 x 17 x 8 ins. 17 ins. in the ground and mound of stone for 1/4 sec. cor. marked 1/4 S. 1 on N. 12 on S. faces, raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of col. Beds impracticable.
14.00		Old road bears N. $\frac{3}{4}$ S.
33.00		Top of ridge bears N. E. $\frac{3}{4}$ S. 1/1 dec.
53.87		The cor. of secs 1, 2, 11, ³ rd , 12.
		Sand, rolling
		Soil, stony 3-2 nd ^{3rd} 1/1 dec. rate. no timber

Subdivision of T. 25 S., R. 24 E., Continued.

Chains

N. 001' W. on a random line
bet. secs. 1^{and} 2.
40.00 Set temp. $\frac{1}{4}$ sec. cor.
78.41 Intersect N. bdy. of sp. 26.10 chs.
89.36 Cor. of secs. 3 & 4
T. 24 S., R. 24 E. but no due line.
Set a sand stone $18 \times 12 \times 10$ ins.
12 ins. in the ground, for Clos-
ing Cor. to secs. 1^{and} 2.
Marked C.C. on S. with 1 groove
on the E. and 5 grooves on the
W. faces. raised a mound
of stone 2 ft. base, $1\frac{1}{2}$ ft. high.
S. of cor. Pits impracticable.
Jan 31st

At this cor. I set off 17' 23" S.
on decl. arc: and at 61 $\frac{1}{4}$ m.p.m.l.
m.t., observe the sun on the
meridian the resulting lat.
is 38° 39' N.

S. 001' E. on a true line
bet. secs. 1^{and} 2.

Ascending and rolling land,
Irrigation ditch, Course N. W.
Barbwire fence, bears N. W. ^{and} S. E.
38.41 Set a sand stone $18 \times 16 \times 7$ ins. 12 ins.
in the ground for $\frac{1}{4}$ sec. cor. marked
N. S. 20 N. 4. 10 W. E. faces, raised a mound of
stone 2 ft. base, $1\frac{1}{2}$ ft. high. W. of cor.
Pits impracticable.

48.41 The cor. of secs. 1, 2, 11^{and} 12.

Land, rolling.

Soil, stony 2nd ^{and} 3rd grade.
Not timbered.

Jan. 31st, 1901.

Sub-divisions of T. 25 S., R. 24 E., continued.

Chains

Dec. 2nd, 1901

At the Standard col. of
secs. 34^{3d} & 35. on the South Edg. of
T. 25 S., R. 24 E.

Heretofore described.

At 8 a.m., l.m.t., I set off
38°36' N. on Lat. arc; 16°56' S. on Lec.
arc; and determine a true merid-
ian with the polar.

Thence I run

N. 0°01' W. bet. secs. 34^{3d} & 35

Descending through dense oakbrush
and Aspens.

30.50	Bottom of Cañon 400 ft. deep. course N. W. leave aspens, ascend.
40.00	Set a sandstone 18 x 10 x 5 ins. 12 ins. in the ground for 1/4 sec. col. marked 1/4 S. 34. on N. 35 on E. faces. raised a mound of stone 2 ft. base, 1 1/2 ft. N. of col.
54.70	Opps impracticable
63.00	Woodroad, bears N. E. ^{3d} S. W. Enter Scattering pine timber bears N. W. ^{3d} S. E.
66.00	Spurs, projects S. W. Leave timber bears N. W. ^{3d} S. W.
71.25	Tops of ridge, bears E. ^{3d} S. W.
78.00	Entered heavy pine timber. bears E. ^{3d} S. W.
80.00	Set a sandstone 20 x 11 x 5 ins. 15 ins. in a mound of stone. for col. of sec.
26, 27, 34 ^{3d} & 35.	marked with 2 notches on the E. and 1 notch on the S. edges. Diameter which a pine 20 ins. in diam. bears N. 88° E., 1 1/4 lbs. dish. marked S. E. T. 25 S., R. 24 E. S. 26 B.G.
A pine 30 ins. in diam. bears S. 70°30' E. 97 lbs. dish. marked T. 25 S., R. 24 E. S. 35 B.G.	
A pine 24 ins. in diam. bears S. 71°30' W.	

BULL. 8

Subdivision of S. 75 S., R. 24 E., continued.

Chains

1.88 chs dist. marked N. 25 S., R. 24 E. S. 34 B. S.
No other suitable trees within limits.
After diligent search no trace of old
sec. cor. can be found.
Land, mountainous.
Soil, stony. ^{3rd and 4th rate,}
Pinyon, pine, aspen
Dense young growth ^{and}
mountainous 80.00 chs.

East on a random line bet. secs.
26 ^{and} 35.
Set temp 1/4 sec. cor.
Intersect N. ^{and} S. line at the cor.
of secs 25, 26, 35 ^{and} 36.
Thence I run
West on a true line bet. secs. 26 ^{and} 35.
descending through dense oak brush
and large pine timber ^{and} scattering
young growth of aspen.
4.00 descend over broken sandstone
ledges ^{and} boulders.
40.00 Set a sand stone 18 x 14 x 12 ins. 12 lbs.
in a mound of stones marked 1/4 S. 26
on N. 35 on S. faces.
From which a pine 30 ins. in diam.
leaves, N. 75° W. 63 lbs. dist. marked
1/4 S. 26, B. S.
A pine 30 ins. in diam, leaves S. 40° W.
48 lbs. dist. marked 1/4 S. 35 B. S.
After diligent search no trace of old
sec. cor can be found.
77.00 Hagon road N. E. ^{and} S. W.
79.80 Hagon road ^{and} trail bears
N. E. ^{and} S. W.
80.00 The cor. of secs 26, 27, 34 ^{and} 35.
Land, mountainous
Soil, stony ^{3rd and 4th rate,}

Subdivisions of T. 25 S., R. 24 E., Continued.

Chains

Pine, Aspen ^{and} spruce.
Mountainous land ^{and}
Dense undergrowth 80.00 ch.

No. 01 N. bet. secs. 26 ^{and} 27.

Ascending through dense oak
and berry brush.

2.00 Leave pine timber. bears E ^{and} W.

2.60 Top of spur. Projects S. W.

Spur projects S. W. descend.

Bottom of canon, 300 ft. deep.

Course S. W. ascend

Enter scattering cedar ^{and} spruce on
bears N. E. ^{and} S. W.

Leave timber, bears E. ^{and} W.

Set a sand stone 14 x 12 x 4 ins.

10 ins. in the ground, for 1/4 sec.

Cos. marked 1/4 S. 27 on N. 26 on E faces
raised a mound of stone at base,
1 1/2 ft. high N. of cos.

Pits impracticable.

Top of ridge. bears E ^{and} W. descend.

Enter cedar ^{and} spruce

Bottom of ravine 300 ft. below 1/4

Cot. drains N. W.

Set a sandstone 18 x 15 x 10 ins. 17 ins. in

Mound of stone. for cos. of secs.

22, 23, 26 ^{and} 27 marked with 2 notches
on the E. ^{and} W. edges.

From which a pine 26 ins. in diam.

bears N. 63° E. 1.22 chs. dist. marked

T. 25 S., R. 24 E., S. 23 B. T.

A pine 16 ins. in diam. bears S. 10° E.

1.04 chs. dist. marked T. 25 S., R. 24 E., D. 26 B. T.

A pine 15 ins. in diam. bears S. 69° W. 1.25

chs. dist. marked T. 25 S., R. 24 E., S. 27 B. T.

A pine 12 ins. in diam. bears N. 59° W.

1.15 chs. dist. marked T. 25 S., R. 24 E., S.

22 B. T.

Subdivision of S. 25 S., R. 24 E., Continued.

Chains.

Sand, mountainous. 3rd plat.
 Soil, stony. 3rd plat.
 Pines, Cedar, spruce or ^{and} pine.
 Dense undergrowth ^{old}
 Mountainous land 80.000 chs.

Feb 2nd

At this cot. I set off 16' 49"
 S. on decl. acc; and at 0h. 14m p.m.
 C. mt., observe the sun on the merid-
 ian the resulting Lat is. 38° 37' N.

East on a random line bet. secs.
 23rd & 26.

- 40.00 Set. temp 1/4 sec. cot.
 79.98 Intersect N³⁷E. line at the cot. of
 secs. 23, 24, 25rd 26.
 Thence I run
 West on a true line bet. secs. 23rd 26
 descending, through dense oak
 and berry brush.
 3.00 I pass ^{old} wagon road
 bears N.E. ^{and} S.W.
 39.99 Set a sandstone 18x15x4 ins. 12
 ins. in the ground, for 1/4 sec. cot,
 marked 44 S. 23 on N. face, 26 on
 S. face, ^{old} raised a mound of stone
 2 ft. base, 1 1/2 ft. high. N. of cot.
 Bits impracticable.
 70.00 Enter large pine timber, bears
 N. E. ^{and} S. W.
 And old Swenson's log cabin
 bears N. 6 chs.
 72.00 Bottom of ravine, 800 ft. below
 Set. Cot. during S. W.
 79.98 Piece of secs. 23, 24, 26rd 27.
 Sand, mountainous.
 Soil, stony 3rd plat.
 Pines, pine
 Dense undergrowth ^{old}
 Mountainous 79.98 chs.

Subdivision of T. 25 S., R. 24 E., Continued.

Chains.	
	No. 01 N. bet. secs. 22 nd & 23.
40.00	Ascending through dense oak and berry brush. Heavy pine timber. Set a sand stone 17x12x4 ins. 9 ins. in the ground for 1/4 sec. cor. marked 14S. 22 on N. 23 on E. faces. From which a pinon 6 ins. in diam bears N. 35° E. 1.75 chs. dist. marked S. 14S. 23 B.G. A pinon 8 ins. in diam. bears N. 57° N. 25 lbs. dist. marked 14S. 22 B.G.
62.30	Leave timber, bears E nd & N. Begin steep descent over sand-stone ledges and cliffs.
77.00	Bottom of canon 200 ft. deep. Course N. Ascend Coated pine timber bears E. 14S. Set a sand stone 24x12x7 ins. in a mound of stone. For cor. of sec. 14, 15, 22 nd & 23. marked with 3 notches on the S. and 2 notches on the E. edges from which a pine 17 ins. in diam bears N. 53° E. 3.5 lbs. dist. marked T. 25 S., R. 24 E. S. 14. B.G.
80.00	A pine 17 ins. in diam bears S. 40° E. 26 lbs. dist. marked T. 25 S., R. 24 E. S. 23 B.G. A pine 17 ins. in diam. bears S. 62° E. 18 lbs. dist. marked T. 25 S., R. 24 E. S. 22 B.G. A pine 10 ins. in diam. bears N. 35° N. 37 lbs. dist. marked T. 25 S., R. 24 E. S. 15 B.G.
	Land, mountainous. Soil, stony. 3rd and 4th rate. Timber, fine. Dense undergrowth 3rd Mountainous land 8000 chs.

East on a random line between
14nd & 23.

Subdivision of T. 25 S., R. 24 E. Continue

Chains	
4000	Set temp. $\frac{1}{4}$ sec. cor.
8002	Intersect N. nd S. line 3 lbs. No the cor. of secs. 13, 14, 23 ^{and} 24. Hence I run N. 89° 59' W. on a true line bet. secs. 14 ^{and} 23. Ascend.
175	Top of sand stone cliffs 100 ft high bear N. nd S. descend over stony soil, through dense artemisia and scattering juniper and pine timber. Bear N. nd S.
4001	Set a sand stone 16 x 1.0 x 5 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 14 on N. 23 on S face raised a mound of stone 2 ft base, 1 $\frac{1}{2}$ ft high N. of cor. Pits impracticable.
- 8002	The cor. of secs. 14, 15, 22 ^{and} 23. Land, mountainous soil, stony 3rd ^{and} 4th rate. Timber scattering pine, Dense undergrowth Mountainous 8002 chgs.

Feb. 3^d 1901

At the cor. of secs. 14, 15, 22
and 23, at 8 a.m., C. m. t., I set off 38°
 $38'$ N ors lat acc. $16^{\circ} 32' S.$ onded.
acc; and determine a true
meridian with the polar.

Hence I run

N. 0° 01' W. bet. secs. 14^{and} 15.

Ascending over stony land,
through dense artemisia and
scattering pine timber
Top of ridge, bears End Sth.

30.00

Subdivisions of T. 25 S., R. 24 E., continued.

chains	
33.00	Bottom of canon 250 ft deep, coarse W. ascend through heavy cedar and pin on
40.00	Set a sandstone 14 x 10 x 8 ins. 10 ins. in a mound of stone on solid sandstone base, marked $\frac{1}{4}$ S. 15° on W. 14 on E. faces. From which a pin on 6 ins. in diam beams E. 15 lbs. dist. marked $\frac{1}{4}$ S. 14 B? A a pin on 8 ins. in diam beams S. 15° W. 20 lbs. dist. marked $\frac{1}{4}$ S. 15 B?
80.00	Set a sandstone. 16 x 10 x 4 ins. 11 ins. in the ground, for cor. of sec. 10, 11, 14 and 15. Marked with 4 notches on the S. and 2 notches on the E. edges Raised a mound of stone 2 ft base, 1 1/2 ft high. W. of cor. Opt impracticable. Land, mountainous Soil, stony ^{4th rate.} Timber cedar ^{and} pinon Dense under growth ^{and} Mountainous land 8000 ft.

	T 89 59' E. on a random line bet. secs 11 ^{and} 14.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.04	Intersect N. ^{and} S. line 3 lbs. N. of the cor. of secs. 11, 12, 13 ^{and} 14. Hence I run
	T 89 58' W. on a true line bet. secs. 11 ^{and} 14. through Cedar ^{and} pin on timber. Ascending the E. side of mountain over broken hills and ledges.
27.50	Leave timber, bears N. ^{and} S.
40.07	Set a sandstone 15 x 9 x 4 ins. 10 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked

Subdivisions of T. 25 S., R. 24 E., continued.

Chains.	
	1/4 S. 11 on N. 14 on S. faces. raised a mound of stone 2 ft. base, 1/2 ft. high. N. of cor.
57.60	Pits impracticable Top of Sandstone Cliff. Rim rock 300 ft high. bears N. 27 ^{3rd} S.E.
- 80.04	Overs broken Mesa. The cor. of secs. 10, 11, 14 ^{2nd} & 15. Land, mountainous Soil, stony 11 th plate. Timber, scattering Mountainous land, 80.04 chs.
	N. 0° 1' W. bet. secs. 10 ^{3rd} , 11. Descending along the N.E. side of high Mountain over broken foot hills.
33.40	Top of ledges. Sandstone Rim Rock. 300 ft high. bears N. 27 ^{3rd} S.E.
40.00	Set a sandstone 16 x 10 x 5 ins. 11 ins. in the ground for cor. of sec. Cor. marked 1/4 S. 10 on 27, 11 on E. faces. raised a mound of stone 2 ft. base, 1/2 ft. high N. of cor. Pits impracticable.
56.00	Dry run Course N. E.
- 80.00	Set a sandstone 15 x 7 x 5 ins. 10 ins. in the ground, for cor. of secs. 2, 3, 10 ^{3rd} & 11, marked with 5 notches on the S. and 2 notches on the E. Eggs raised a mound of stone, 2 ft. base, 1/2 ft. high N. of cor. Pits impracticable Land, mountainous Soil, stony 14 th plate. Mountainous land. 80.00 chs.

Subdivisions of T. 25 S., R. 24 E., Continued

chains.

	S. 8° 9' 58" E. on a random line bet. secs. 2 nd & 11.
40.00	Set temp. $\frac{1}{4}$ sec. cor.
80.00	Intersects N ^{3rd} S. line 5 fms S. of the cor. of secs. 1, 2, 11 nd , 12.
	Thence Run
	West on a true line bet. secs. 2 nd & 11.
	Possibly over rolling land, dense artemisia.
150	Dry wash, 40 ft deep. Course N. ascend.
29.00	Dry wash 75 ft deep. Course N.
	Enters scattering Cedar sp. on timbered
40.00	Set a sand stone 16 x 12 x 8 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 2 on N. 11. on S. faces. raised a mound of stone 2 ft base, 1 $\frac{1}{2}$ ft high N. of Col. Posts impracticable.
41.00	Dry wash 40 ft deep. Course N. Ascend over broken sandstone ledge.
46.00	Wash 5 ft wide 3 ft. deep. Course N.E.
80.00	The cor. of secs. 1, 3, 10 nd & 11. Land, mountainous Soil, stony No timber Mountainous land

Feb. 3rd At this cor. I set off 76°
31' S. on decl. arc; and at 114 m. p.m.
l. m. t., observe the sun on the
meridian, the resulting lat. is.
38° 40' N.

80.00 chs.

No 0° 1' W. on a random line bet. secs.
2nd & 3.

40.00	set temp. $\frac{1}{4}$ sec. cor.
78.49	Intersect the North bdy. of Tps. 26, 10 Chs. C. of the cor. of secs. 34 nd & 35. T. 24 S., R. 24 E. heretofore described.

Subdivisions of T. 25 S., R. 24 E., Continued

Chains.

Set a sandstone 16x10x5 ins. 11 ins.
in the ground for closing cor. of
secs. 2 ^{and} 3. marked S. C.C. on S.
with 2 grooves on the E. and 4
grooves on the W. faces.
raised a mound of stone 2 ft.
base, 1 1/2 ft. high. S. of cor.
Pits impracticable.

Then ce I run

S. 0° 0' E. on true line bet. secs. 2 ^{and} 3.
Ascending dense sage, scattering timber,
Old road N.E. ^{and} S.W.

71.85

Hash 25 ft deep. Course N.E.

38.49

Set a sandstone 14x10x4 ins. 10 ins.
in the ground for 1/4 sec. cor.
marked 1/4 S. 3 on W. 2 on E. faces,
raised a mound of stone 2 ft.
base, 1 1/2 ft. high. W. of cor.
Pits impracticable

50.00

Enter heavy Cedar ^{and} Pinon, bears N. 21[°] ^{and} 45[°] E.

54.00

Roots of mountain ^{big} ^{thin} steep broken ledges ^{broken} ^{big} N. 15[°] ^{and} 45[°] E.

- 78.49

The cor. of secs. 2, 3, 10 ^{and} 11.

Land, mountainous

Soil, stones, ^{30%} slate.Timber, *Cedrus pini*

Mountainous land, 78.49 chs.

Feb. 4th 1901

At the standard cor. of
secs. 33 ^{and} 34 on the south bdry. of T. 25
S., R. 24 E.

heretofore described.

At 8 a.m., l.m.t., I set off
38° 36' N. on lat. arc. 16° 14' S. on decl.
arc, and determine a true
meridian with the solar.

Then ce I run

N. 0° 2' W. bet. secs. 33 ^{and} 34,

BOOK NO. 201

Subdivision of S. 25 S., R. 24 E., continued.

Chains	
	Descending along the west side of Mountain ridge, overshaly rock, through dense undergrowth, scattering pine and aspen timber.
36.50	Leave timber
40.00	Set a trachyte stone 16x9x5 ins. 11 ins. in the ground, for 1/4 sec. col. marked 145.33 on N. 34 on E. face, raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of col. It's impracticable.
45.00	Spur, projects N. 20° W. lawshale,
51.00	After diligent search no trace of the old witness col. can be found.
67.50	Castle Creek, 3 lks. wide 3 ins. deep, pure water flows N. W. ascend.
65.50	Wood road.
	Bears N. W. and S. E.
74.50	Irrigation ditch course N. W. from S.E.
77.00	Spur, projects N.
- 80.00	Set a sandstone 18x14x4 ins. 12 ins. in the ground, for col. of sec. 27, 28, 33 and 34. Marked with 3 notches on the E. and 1 notch on the S. edge. From which a pinon 4 ins. in diam. bears N. 4° 45' E 31 lks. dist. marked S. 25 S., R. 24 E., S. 27 B.D.
	A pinon on 10 ins. in diam. bears N. 27° W. 1.24 chs. dist. marked S. 25 S., R. 24 E., S. 28. B.D. No other suitable trees within limits, raise a mound of stone 2 ft. base, 1 1/2 ft. high, N. of col. It's impracticable.
	After diligent search no trace of the old sec. col. can be found.
	Land, mountainous
	Soil, stony 3 rd stage plate.
	Timber, scattering,
	Dense undergrowth, mountainous land, 80.00 chs.

Subdivision of R. 25 S. R. 24 E., Continued.

Chains	
	East on a random line bet. secs. 27 ^{and} 34.
40.00	Set temp. 1/4 sec. cor.
79.96	Intersect NW ^{and} S. line 3 lks. S. of the cor. of secs. 26, 27, 34 ^{and} 35. Hence run S. 89° 59' W. on a true line bet. secs. 27 ^{and} 34.
29.50	Descending over rolling land, through dense artemesia, oak, berry brush, scattering cedar ^{and} pinon
39.98	After diligent search, no trace of the old witness cor. can be found. Set a sand stone 20 x 14 x 4 ins. 15 ins. in the ground ^{and} a mound of stone, for 1/4 sec. cor. Marked 1/4 S. 27 on N. 34 on S. face, raise a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.
70.00	Enter dense cedar ^{and} pin on timber, bear N. ^{and} S.
75.00	Leave dense cedar ^{and} pin on bear N. ^{and} S. E.
79.96	The cor. of secs. 27, 28, 33 ^{and} 34. Land, mountainous Soil, stony 3 ^d rate. Timber, cedar ^{and} pinon. Dense undergrowth ^{and} Mountainous land, 79.96 cho.

	N. 0° 2' W. bet. secs. 27 ^{and} 28.
	Over broken foot hills, scattering cedar ^{and} pin on
10.00	George S. Iles, log cabin on his claim stands, 7 feet about 8 cho.
37.50	Bottom of a ravine 75 ft. deep. drains S. W., ascend. over broken sand- stone ledges ^{and} cliffs, bear

Subdivision of T. 25 S., R. 24 E., Continued.

Chains.	N. ^{W.} 2d S.
40.00	Set a sandstone 15x12x6 ins. 10 ins. in the ground for $\frac{1}{4}$ sec. Cot. marked $\frac{1}{4}$ S. 28 on N. 27 on E. faces. From which a cedar 4 ins. in diam. bears E. 34 lbs. dist. marked $\frac{1}{4}$ S. 27 B.G.
80.00	Cedars 6 ins. in diam. bears N 31 lbs dist. marked $\frac{1}{4}$ S. 28 B.G.
	On West side of Spur. projects N.W. set a sandstone 17x10x5 ins. 11 ins. in the ground, for Cos. of secs. 21, 22, 27 ^{and} 28. marked with with 3 notches on the E. and 2 notches on the S. Edges. Raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high. N. of cot. Pits impracticable. Land, mountainous, Soil, stony clay. 42° slate. Timber, scattering cedar ^{and} pinion mountainous land. 80,000 chrs.
	Obit. At this cot. I set off 16° $13' S$ on decl. acc. and at ob. 14 m. y.m.l. m.t., observe the sun on the meridian; the intersecting lat. is $38^{\circ}37' N$.

40.00	N. $89^{\circ}59' E$. Ans a random line bet. secs. 22 ^{and} 27.
80.00	Set temp. $\frac{1}{4}$ sec. cot. Intersect N. ^{and} S. line at the Cos. of secs. 22, 23, 26 ^{and} 27. Thence I run S. $89^{\circ}59' W$. over a true line bet. secs. 24 ^{and} 27.
	Descending through dense artemesia, ^{and} heavy pine timber

DUNN MOUNTAIN

Subdivision of T. 25 S., R. 24 E. continues

Chains.	
40.03	Set a sand stone $24 \times 10 \times .0$ ins. 16 ins. in a mound of stone, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 27 on N. 27 on S. face. From which a pine 18 ins. in diam. bears $S 51^\circ E$, 35 lbs. dish. marked $\frac{1}{4}$ S. 27 B.T. No other suitable trees within limits.
49.00	Perpendicular sandstone cliffs, 300 ft. high. and leave timber bears N. E $\frac{1}{4} S. 27$. Enter scattering cedar and pinon.
74.00	Top of spur, projects N. W. descend.
- 80.06	The cor. of secs. 21, 22, 27 $\frac{1}{4} S. 27$. Land, mountainous. Soil, stone $\frac{3}{4}$ $\frac{1}{4}$ plate, Timber, pine, pinon $\frac{1}{4}$ cedar. Dense undergrowth Mountainous land 80.06 chs.
73.00	N. 0' 2' 24'. bet. secs. 21 $\frac{1}{4} S. 22$. Descending along spur, through scattering cedar $\frac{1}{4}$ pinon, dense Artemesia
40.00	Bottom of ravine 200 ft. below cor. course N. 15° E.
- 80.00	Set a sandstone $15 \times 10 \times 5$ ins. 10 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 21 on N. 22 or E. faces. From which a pinon 3 ins. in diam. bears $E. 15^\circ$ lvs. dish. marked $\frac{1}{4}$ S. 22 B.T. No other suitable trees within limits.
- 80.00	Set a sandstone $15 \times 9 \times 4$ ins. 10 ins. in the ground for cor. of sec.

110

Subdivision of T. 25 S., R. 24 E. Continued.

Chains.

15, 16, 21 ^{sqd}₂₂. marked 25 S. on N.E.
and 24 E. on S.E. faces. with 3
notches on the S. and E. edges.
raised a mound of stone 2 ft. base,
1 $\frac{1}{2}$ ft. high. N. of Cos.
Pits impracticable.
Land. mountainous
Soil, stony 30 pace.
Timber, scattering cedar and
pinon.
Mountainous land, 80.00 chs.

N 89°59' E. on a random line bet.
secs. 15 ^{sqd}₂₂.

- 40.00 Set temp. 1/4 sec. Cos.
80.06 Intersect N. ^{sqd}₂₂ S. line 5 lbs. N of
the Cos. of secs. 14, 15, 21 ^{sqd}₂₃.
Thence down
N. 89°59' W. on a true line bet.
secs. 15 ^{sqd}₂₂.
Descending over stony land
through dense Artemesia and
scattering cedar and pinon.
340.0 Ravine 100 ft below Cos.
drain S.
110.03 Set a sandstone 2 $\frac{1}{4}$ x 18 x 3. ins.
in a mound of stone. marked
1/4 S. 15 on N. 22 on S. faces.
From which a pinon 8 ins diam
N. 80° E. 7 lbs. dist. marked 1/4 S. 15. B.T.
a pin on 24 ins in diam. least
S. 85° W. 1.15 chs. dist. marked 1/4 S 22
B.T.
47.00 Bottom of canon 40 ft below
1/4 sec. cor. course N. W.
Leave timber. ascend
57.00 Spur. bears N. descend
80.06 The cor. of secs. 15, 16, 21 ^{sqd}₂₂.

Sub-division of 9.251, R. 216. Contd.

Chains.	<p>Land, mountainous Soil, stones, 2 miles west of junction Timber, Cedar, 3rd growth Dense, undergrowth, 3d mountainous land, 8.0.0.0.0.0. Feb. 14th, 1901.</p>
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Feb. 5th, 1901.

At, 8 a.m. L. m.d., I
set off $38^{\circ}38'N$ on lat. arc. $15^{\circ}56'$
S. on decl. arc; and
determine a true meridian
with the solar, at the cor. of sec.
 $15^{\circ}16'21''$ S. decl.
 $92^{\circ}0'2'24''$.
Lat. sec. $15^{\circ}31'16''$.

9.00	Ascending over rolling and broken land & scattering Cedar sp. on top of as cent. bears N. 2f. and S. E. descend.
29.00	Havine 15' off. deep. Course N. ascend over broken Sandstone ledges.
40.00	Set a sand stone $15 \times 9 \times 6$ ins. 10 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}S. 16$ on N. 15 on E. faces, raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high of. of cor.
53.00	Pits impracticable. Sand stone ledge 15 ft. high bears N. 2f. and S. E.
80.00	Set a sand stone $16 \times 12 \times 4$ ins. 11 ins. in the ground, for cor. of sec. 9, 10, 15 & 16. marked with 4 notches on the S. and 3 notches on the E. edges. raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high. $\frac{1}{2}$ of cor. Pits impracticable.

Subdivision of 925 S.R. 24 E. continued.

Chains

Sand, broken
Soil, stony 4th rate.
Timber, Cedar and pinion
Mountainous land, 8000 chs.

$5.89^{\circ}59'6''$.
on a random line
bet. secs. 10^{3d} & 15.
set temp $\frac{1}{4}$ sec. cor.
8004 Intersect North and S. line
2 lbs. S. of the cor. of secs.
10, 11, 14 $\frac{1}{4}$ 15.
Prince Run
West on a true line
bet. secs. 10^{3d} & 15.
Descending over broken
land through dense oak
and artemesia scattering
Cedar and pinion.
4000 set a sand stone 15x11x5
ins. 10 ins. in the ground,
for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S.
1000 N. 1500 S. faces.
raised a mound of stone
2 ft base, $1\frac{1}{2}$ ft. high N of
cor. Pits impracticable.
Dry run course S.
The cor. of sec. 9, 10, 15 $\frac{1}{4}$ 16.
Sand, broken
Soil, stony 4th rate.
Timber, scattering
Dense undergrowth 80.04chs.

No. 2 $\frac{1}{4}$
feet - secs 9^{3d} & 10.
Ascending over broken
land, through dense oak
and artemesia scattering

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Subdivision of T. 25 S., R. 24 E., Continued

Chains.

Cedar ^{and} pinon

40.00 Set a sand stone 17x9x6 ins.
11 ins. in the ground for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ S. 9 on N.
10 on E. faces, raised a mound
of stone, 2 ft. base, $1\frac{1}{2}$ ft. high
N. of cor.

Pits impracticable

48.00 Top of flat ridge,
beals N. N. W. and S. E. descend
gradually.

- 80.00 Set a sand stone 15x12x3 ins.
10 ins. in the ground, for
cor. of secs. 3, 4, 9 $\frac{3}{4}$ 10
marked with 3 notches on E.
and 5 notches on S. edges,
raised a mound of stone
2 ft. base, $1\frac{1}{2}$ ft. high N. of
cor.

Pits impracticable

Sand, broken

Soil, stony ^{4 th rate,}

Timber, Cedar ^{and} pinion

Dense underly growth 80.00 chs.

Deb 5th

At this cor. I set off
15° 55' S on decl. arc; and at 40°
40' from m. t., observe the sun
on the meridian, the result-
ing lat. is 38° 40' N.

Cast on a random line
Set. secs. 3 $\frac{3}{4}$ 10.

40.00 Set Temp. $\frac{1}{4}$ sec. cor.

8.0.10 Intersect N. $\frac{3}{4}$ S. line of lots S.
of the cor. of secs. 2, 3, 10 & 11.
Hence Draw

$5.89^{\circ} 56' N.$ on a true line.

Subdivision of T. 25 S., R. 24 E. continued.

Chains	bet. secs. 3 rd , 0.
	Ascending over broken ledges and boulders, scattering cedar and pinon.
40.05	Set a sand stone 15x9x7 ins. 10 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4} S.$ 3 on N. 10 on S. faces, raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of lot. Pits impracticable.
56.00	Top of cliffs and rim rock 300 ft. high. bears N. 27 [°] S. 6 [°] . Descend.
80.10	The cor. of secs. 3, 4, 9 rd , 10. Land, broken Soil stony $\frac{1}{4}$ ft. rate. Timber, cedar and pinon Mountainous land 80.10 Chs.
	Knowing I will not close on N. bdy. Within limits I run No. 02' ff. on a true line, bet secs. 3 rd , 4. over broken land descend through scattering cedar and pinon on Rim rock top of cliffs 300 ft. high, bear N. 27 [°] S. 6 [°] .
35.00	Set a sand stone 18x12x3 ins. 2 ins. in mound of stone and earth for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4} S.$ 4 on N. 3 on E. face, raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of lot. Pits impracticable.
40.00	Intersect N. bdy of 9 th . 26.15 Chs. E. of the cor. of secs.
78.55	33 rd , 34, 0, 24 S. R. 24 E. but for described falls, grass and stone bounded.

BOOK A-26

Subdivision of Des. S.R. 24 E., cont'd.

chain

$4 \times 4 \times 2 \frac{1}{4}$ ft. for closing cor to
sec. 3 & 4.
Marked C.C. on S. with 3 grooves
on the E. & W. faces.
From which a pinon 7 ins.
in diam. bears S. 55° E. 47 lbs. dist.
marked 9.25 S. R. 24 E. S. 3 B. 9.
A pinon 6 ins. in diam. bears
S. 47° N. 45 lbs. dist. marked 9.25.
S. R. 24 E. S. 4 B. 9.

Land, mountainous.

Soil, stony. 4th rate.

Rubber, Cedar and pinon.

Mountainous land, 78.55 chs.

Feb. 5th 1901.

Feb. 6th, 1901.

At the standard cor. of
secs. 32nd 33. on the S. bdy. of 9.25
S. R. 24 E.

Surveyor described,

At 8 a.m. l. m.t. I set
off 38° 36' N. on lat. arc. 15° 38' S.
W. on decl. arc. and determine
a true meridian with the
solar.

Hence I run

No. 03' 7f. bet. secs. 32nd 33.

Locate the N. side of mountain
through dense serviceberry and
no. 00. After diligent search no trace of old surveyor found.

Walls on a trackable bouldered 13x
 $7\frac{1}{2} \times 7\frac{1}{2}$ ft. for 1/4 sec. cor.

Marked 8 1/4 S. 3 20m 7f. 33 on E. face
raised a mound of stone 3 ft.
base 14x ft. high 1/4 of cor.

It is impracticable.

Loc. of mountain traces
N. 27° 30' E.

After diligent search no trace of old surveyor

Subdivision of T. 25 S., R. 24 E., continued.

Chains.	cos. can be found.
67.00	Ravine, 1500 ft. below standard Cot. Course N. W. ascend Enter heavy Cedar and pinon
68.00	Ascend over broken sand stone ledges and boulders.
76.40	Dip Rim rock bears N.W. and S.E. descend
80.00	Set a sand stone 18x12x8 ins. 12 ins. in the ground, and mound of stone. for cot. of secs. 28, 29, 32 and 33. Marked with 4 notches on E. and 1 notch on S. edges. From which a pinion 7 ins. in diam. bears N. 73° E. 47 lbs. dist. marked T. 25 S., R. 24 E., S. 28 B.S. A pinion 7 ins. in diam. bears S. 35° E. 31 lbs. dist. marked T. 25 S., R. 24 E., S. 33 B.S. A pinion 3 ins. in diam. bears S. 30° W. 27 lbs. dist. marked T. 25 S., R. 24 E. S. 32. B.S. A pinion 7 ins. in diam. bears N. 17° 30' W. 27 lbs. dist. marked T. 25 S., R. 24 E. S. 29 B.S. Sand, mountainous Soil, stony. 4 th rate. Timber, Cedar and Pinion. Mountainous land and dense under- growth 8000 chs.

140.00	East on a random line bet. secs. 28 and 33.
80.06	Set temp 1/4 sec. cot. Intersect N. ^{and} S. line at the cot. of secs. 27, 28, 33 and 34. Thence I run West on a true line -

Subdivision off T. 75 S., R. 24 E. continued.

Chains

Set sec. 78^{3d} 33.

Descending over broken land,
through dense oak and artemesia

- 11.50 Irrigation ditch, course N.
17.00 Old road, bears N.^{3d} S.
13.70 Castle Creek, dry course N.W.
16.35 Dry wash, course N.
Ascent.
40.03 Set a black slate stone 14x14x5 ins.
10 ins. in the ground. for the
sec. cor. or marked 745.28 on N.
33 on S. faces, raised a mound
of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high
N. of cor.
It's impracticable.
114.00 Begin steep as cent
bears N. 28^{3d} S. E.
47.00 Enters heavy Cedar and pinion
timber, bears N. 27^{3d} S. E.
80.06 The cor. of sec. 78, 79, 32^{3d} 33.
Land, broken -
Soil, stony. 3 $^{\circ}$ 3^{3d} 4th rate.
Timber, Cedar and pinion.
Mountainous land, ^{and} denuded
growth. 80.06 chs.
Feb. 6th

At this cor. I set off
15° 37' S. on decl. asc. and at ob.
147 m.p.m.b. m. t., observe the sun
on the meridian, the resulting
lat. is 38° 36' N.

No. 03⁷ 7¹.

Set sec. 78^{3d} 29.

Descending over broken land,
through heavy Cedar and pinion
timber.

- 13.00 First of steep descent leave
heavy timber enter dense

A-201

Division off 7.5 S. R. 24 E. continued

	Service berries and oak brush beans N. W. 44 E.
2900	Road, beans N. E. 2d S. 17 E.
3000	Set a trachyte stone 15x15x8 ins. 10 ins. in the ground for 1/4 Sec. cor. marked 1/4 S. 29 on W. 28 on E. faces, Raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.
41.00	Bottom of wash 75 ft. deep. dry bed of Castle Creek. course W.
	begin steep ascent over boulders and broken ledges, through scattering cedar and pinon on.
50.00	Set a sand stone 26x14x4 ins. 19 ins. in the ground and mound stone, for cor. of secs. 20, 21, 28 ^{2d} & 29.
	Marked with 4 notches on the E. and 2 notches on S. edges. Raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor. Pits impracticable.
	Land mountainous. Soil, stony ^{4th} rate. Timber, Cedar and pinion. Mountainous land, 80.00 chs.

Cast on a random line
bet. secs. 21^{3d} & 28.
Set tump 1/4 sec. cor.
Intersection N. W. 1/2 line. 6 lbs.
5 of the cor. of secs. 22, 23, 26^{2d}
27
Hence I run

Subdivision of S. 75 S., R. 24 E., Continue

chains.

S. 89° 57' W. on a true line
bet secs. 21 and 28.
Descending over broken sand
stone ledges and boulders through
scattering Cedar and pinon
timber.

40.06 Set a sand stone 16 x 9 x 6 ins. 11
ins. in a mound of stone ^{and} earth
for $\frac{1}{4}$ sec. cor. Marked $\frac{1}{4}$ S. 21 on
N. 28 on S. faces.

Raised a mound of stone 3 ft.
base, 1 $\frac{1}{2}$ ft. high N. of cor.

Pits impracticable.

58.00 Spur projects S. W.

- 80.12 600 ft. below, cor. of secs. 21, 22,
27 and 28.

The cor. of secs. 20, 21, 28 and 29.

Land, mountainous.

Soil, stony ^{4th plate}
Timber, Cedar ^{and} pinion.

Mountainous land. 80.1 rchs.

Feb. 6th 1901

Feb. 7th 1901.

At 8 a. m. l. m. d. Isch
off 38° 37' N. on dat. arc. 115° 20' S.
On decl. arc. and determine
a true meridian with the
Solar, at the cor. of secs.
20, 21, 28 and 29.
N. 0° 03' 7".

bet. secs. 20 and 21.

Cuts broken sand stone ledges
and boulders.

100 S. side of Box Canon ^{and} $\frac{1}{2}$ ft. ^{and}
6 chs. wide. 800 ft. deep. ^{and} $\frac{1}{2}$ ft. ^{and}
700 N. side of canon, base N.E. 30° S. $\frac{1}{2}$ ft.

77.00 Spur projects to descend.

38.50 Ravine 75 ft. deep. course $\frac{1}{2}$
ascend.

Subdivision of T. 7 S., R. 24 E., Continued.

Chains.	
40.00	Set a sand stone 18x8x6 ins. 12 ins. in the ground, for $\frac{1}{4}$ sec. cos. marked $\frac{1}{4}$ S. 20 $\frac{3}{4}$ ft. 21 on E. face, raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high ft. off cos.
	From which a pinon 8 ins. in diam bears N. 38° E. 16 lbs. dist. marked $\frac{1}{4}$ S. 21 B.G.
	A pinon 17 ins. in diam. Bears N. 85° W. 13 lbs. dist. marked $\frac{1}{4}$ S. 20 B.G.
52.00	Sand stone ledge 100 ft. high bears E. $\frac{3}{4}$ ft.
54.70	Ridge, bears E. $\frac{3}{4}$ ft. descend.
80.00	Set a sand stone 30x15x4 ins. 23 ins in the ground and mound of stone. for cos. of secs. 16, 17, 20 $\frac{3}{4}$ 21. marked with 3 notches on the S. and 4 notches on the E. edges, raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high. ft. off cos. Pits impracticable
	Stone pinon 7 ins. in diam. Bears S. 30 $\frac{3}{4}$ ft. - 87 lbs. dist. marked, T. 25 S., R. 24 E. S. 20 B.G.
	Land, mountainous Soil, stony. Pines, Cedar and pinon Mountainous land, 80.00 chs.

N. 89°57' E., on a random line
bet. secs. 16 $\frac{3}{4}$ 21.

4000 set Temp. $\frac{1}{4}$ sec. cos.

80.06 Interlock N. $\frac{3}{4}$ S. line

8 lbs. N. off the cos. of secs.

Subdivision of T. 25 S., R. 24 E., continued.

Chains	
	15, 16, 21 ^{and} 22. Thence run West on a true line bet. secs. 16 ^{and} 21. Descending over broken land, through scattering Cedar and pin on
14.00	Ravine 150ft. deep. course N. 21° ascnd.
40.03	Set a sand stone 16 x 12 x 4 ins. 11 ins. in the ground, for 1/4 Rel. Cor. marked $\frac{1}{4}$ S. 16 on N. 21 on S. faces, raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of Col. Pits impracticable.
48.00	Top of ridge bears N. 21° ^{and} S. E. Descend.
77.50	Ravine 200ft. deep. course N. 21° ascnd.
80.06	The cor. of sec. 16, 17, 20 ^{and} 21. Land, mountainous soil, stony ^{4th} rate. Timber, Cedar ^{and} pin on. Mountainous land, 80.06 chd. Feb 7. At this Col. I set off 1519' S on decl. arc; and at 8 ^h 14 ^m L. m. t. observe the sun on the meridian The resulting lat. is $38^{\circ}38'N.$

	$38^{\circ}0'0.3''N.$
	Bet. sec. 16 ^{and} 17.
	Descending over broken land, through dense oak and sage brush, scattering cedar and pinion.
3.00	Bottom of ravine 250ft deep. Course N. ascnd.
11.50	Top of sand stone ledge.

Subdivision of 925 S, R 24 E. Continued

Yards.

21.75

200ft. high base E. and N.
Top of perpendicular cliffs
and dark rock 500ft. high
base N. W. and S. E.

Set a sand stone 15x10x6 ins.
on solid sand stone base
in mound of stone for
witness. Cot. to $\frac{1}{4}$ sec. Cot.
marked 1/4 S. 17° on N. 16 on E
and N.E. on N. faces.
raised a mound of stone
2 ft. base, 1 1/2 ft. high N.
of Cot.

Pits impracticable.

Descend over broken sand
stone ledges and boulders.

4000

set a sand stone 17x17x4
ins. 11 ins. in mound of
stone and earth. for $\frac{1}{4}$ sec.
Cot. marked 1/4 S. 17° on N. 16 on E
faces, raised a mound of
stone 2 ft. base, 1 1/2 ft. high
N. of Cot.

Pits impracticable.

51.00

Rock Creek in Canyon 1000ft.
deep. pure water 5ft. wide
flows N. W. as cond.

-8000

Set a sand stone 18x12x4 ins.
6 in. in mound of stone and earth
for cot. of sec. 8, 9, 16 and 17.
marked with 4 notches on
Sand E. ledges.

Raised a mound of stone
2 ft. base, 1 1/2 ft. high N. of Cot.
Pits impracticable.

Land mountainous

soil, stony, 4th rate
Dirted, Cedar and pinon

BOOK

Subdivision off. 25 S., R. 24 E. continued

Chrons.	Mountainous land, 8000acs.
	East on a random line bet. secs. 9 ^{and} 16.
4000	Set Temp. 1 st sec. cor.
8008	Intersect N. ^{and} S. line E. N. of the cor. of secs. 9, 10, 15, 16. Thence down N. 89° 57' W. on a line line bet. secs. 9 ^{and} 16. Descending over broken land, dense oak and sage brush scattering cedar and pinon.
4004	Set a sand stone 17 x 12 x 6 ins. 9 ins. in the ground, foot 1/4 sec. cor. marked 1/4 S. from N. 16 on S. face, raised a mound of stone 2 ft. base 1 1/2 ft. high N. of cor. It impracticable
57.00	Rim rock, perpendicular Sandstone Cliffs 400 ft. high bear N. 7 ^{and} 1/2 E.
- 80.08	The cor. of secs. 8, 9, 16 ^{and} 17. Land, mountainous Soil, stony, 4 th rate Timber Cedar and pinon Mountainous land, 80.08 acs.

Feb 7th, 1901.

Feb. 8th 1901.

At 8 a.m., l. m. t., back
off 38° 39' N. on Lat. arc; 15° 01' S.
on decl. arc; and determine
a true meridian with the
solar, at the cor. of secs.
8, 9, 16^{and} 17.
No. 03 27'

Subdivision of T. 25 S., R. 24 E., continued.

Chains:

bet. secs. 8^{3rd} & 9.

Ascending over broken sand-stone ledges and boulders.

4000 set a sand stone 18x12x3 ins.

18 ins. in mound of stone and earth, for 1/4 sec. cor. marked 1/4 S. 8 on N. 9 on E. faces.

Raised a mound of stone 2 ft base, 1 1/2 ft. high N. of cor.

Pits impracticable.

6300 On rim rock, perpendicular cliffs 350 ft. high. bear N. W. and S. E.

set a sand stone 18x10x3 ins. 12 ins. in the ground for cor. of secs. 4, 5, 8^{3rd} & 9.

Marked with 5 notches on S. and 4 notches on E. edges. Raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of cor.

Pits impracticable.

Land, mountainous

Soil, stony, 4th rate.

Timber, cedar, aspin on.

Mountainous land, 8000 ch.

S 89° 57' E. on a random line bet. secs. 4^{3rd} & 9.

40.00 set temp. 1/4 sec. cor.

80.00 Intersect N. and S. line 1/2 lk. S. of the cor. of secs. 3, 4, 9^{3rd} & 10.

Hence from

S 89° 58' N. on a true line.

bet. secs. 4^{3rd} & 9.

Descending over broken land, through dense sage and oakbrush, scattering

Subdivision of T. 75 S., R. 24 E. continued

Chains

	Cedar and pinion
4000	Set a sand stone 16x12x3 ins. 11 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4} S.$ 4 on N, 9 on S. faces, raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor.
	It's impracticable
80.00	The cor. of secs. 4, 5, 8 ^{and} 9. Land broken Soil, stony, ^{4th rate} Timber, Cedar and pinion Dense undergrowth, .8000 chs.
	At this cor. I set off 459.8 on decl. arc. and at $8^{\circ}40' P.M.$ L. M. T., observe the sun on the meridian, the resulting lat. is $38^{\circ}40' N.$

No. 03' 2f.

Set. secs. 4 ^{and} 5.

Ascending over broken
land, through dense oak
and sage brush, scattering
cedar and pinion.

- 40.00	set a sand stone 15x12x3 ins, 10 ins. in the ground. for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4} S.$ 5 on N, 4 on E. raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of cor. It's impracticable. From this cor. North it is impossible to continue the line, on account of a series of box canyons. Land broken Soil, stony, ^{4th rate} Timber, Cedar and pinion Dense undergrowth .4000 chs.
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Subdivision of 9.25 S., R. 24 E. continued.

Chains

Feb. 9th, 1901.

At 8. a. m., l. m. t., I set off 38° 36' N. on lat. arc; 14° 42' S. on decl. arc; and determine a true meridian with the solar standard col. of sec's.

31st 37. on the south bdy. of Tp. limits fore described.

No. 03' N.

Lat. sec's. 31st 37.

Descent gradually.

Begin steep descent, through dense oak

Trail bears N. W. 3rd S. E.

Stage road, bears N. W. and S. E.

Spring creek. 3 lks wide.

pure water flows N. W. in Canon 200 ft deep. ascend

Ravine 40 ft deep course N. W.

Set a trachyte stone 16x8x6 ins.
11 ins. in the ground, for Col
sec. col. marked 14 S. 31 Nov 27. 32
on E. faces,

Born 1 ft thick a cedar 12 ins. in diam, bears N. 80° E. 20 lks. dist.
marked 14 S. 32 B.T.

A pinon 8 ins. in diam. bears
S. 35° 27' 24 lks. dist. marked 1 1/4 S.
31 B.T.

Ridge, bears N. W. 3rd S. E.

Raven 100 ft deep. course N. W.

Ridge, bears N. W. 3rd S. E.

Set a trachyte stone 16x10x8 ins.
11 ins. in the ground, for Col
of sec's. 79, 30, 31st 32.

Marked with 5 notches on E.
and 1 notch on S. edges.

Subdivision off T. 25 S., R. 24 E., continued.

Chains:

Raised a mound of stone 2 ft.
base, $1\frac{1}{2}$ ft. high N. of lot.
Pits impracticable.
Land, mountainous
Soil, stony ^{3rd} ~~4th~~ rate
Timber, cedar ^{and} pinon.
Mountainous land 8000 chrs.

Cast on a random line.

Bct. secs. 29 ^{and} 32.

40.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect N. ^{and} S. line at the
cor. of secs. 28, 29, 32 ^{and} 33.

Then I run

West on a true line

Bct. secs. 29 ^{and} 32.

through heavy cedar ^{and} pinon
timber, and oak brush

12.50 Top of ridge bears N. 70° W. ^{and} S. 70° E.
Descend over broken ledges
of sandstone 300 ft. high.

73.00 Spring Creek 3 lbs wide, pure
water flows N.W. in ravine
soft deep.

40.00 Set a trachyte stone $18 \times 14 \times 5$ ins.
 $1\frac{1}{2}$ ins. in the ground, for $\frac{1}{4}$ sec.
cor. marked $\frac{1}{4}$ S. 29 on N. 32 on S.
falls,

From which a cedar 18" in diam
weighs N. 85° E. 67 lbs. disk. marked
 $\frac{1}{4}$ S. 29 B.G.

A cedar 2 ins. in diam. bears
S. 15° W. 1.5 lbs. disk. marked $\frac{1}{4}$
S. 32 B.G.

64.00 Ravine, dry, 50 ft. deep.
Course N.

74.00 Spur projects N. W.

79.00 Dry run, N. W.

- 80.00 The cor. of secs. 29, 30, 31 ^{and} 32.

Subdivision of G.W.S.R. 24 E. Continued.

Land, mountainous
Soil, stones, 4 th rate.
Dwarfed Cedar ^{and} Pinon
Dense undergrowth and
Heavy timber 8000 chs.

Knowing from my retrace-
ment of the N. body of the
Tp. that the line bet. secs. 30
and 31 will not close within
the limits,

Run West on a true line
bet. secs. 30^{3d} & 31.

Ascend over broken land.

1100 Ridge bears N. W. and S. E.
descend S. through scattering
Cedar and Pin on

3330 Road bears N. W. and S. E.
Spring Creek 4 ft wide;
fire water flows N. W. in
canyon roofs deep. as and.

4000 set a trachyte stone 15 x 15 x 5
ins. 10 ins. in the ground,
for 1/4 sec. cor. marked 1/4 S.
30 or N. 31 or S. faces.

Raised a mound of stone 3 ft
base, 1/2 ft. high N. of cor.
Its impracticable.

5100 Ridge bears N. W. and S. E.
Descent.

Joseph Farpale's log house
bears North about 37 chains

6000 Bottom of Ravine 150 ft deep
Course N. W. as and.

68.11 Intersect
West body of Tp. 44 lbs. N. 040° E.
the cor. of secs. 25, 30, 31 & 36
Previously described

Subdivision of T. 25 S., R. 24 E. continued

Chains

Doublecate all marks pertaining to this Township. and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high N. of lot.

Pits impracticable.

At point of intersection set a trachyte stone $14 \times 10 \times 6$ ins. guns. in the ground for Closing Cor. Id. secs. 30nd & 31.

Marked C.C. on E. with 5 grooves on N. and 1 groove on S. face, raised a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high. E. of lot.

Pits impracticable

Sand, broken

Soil, stony ⁴ moderate
Timber, Cedars and pinion.
Mountainous land

68.11 chs.

Feb. 9th

At this cor I set off 14° 40' S. on decl. acc. and at 14 min. p.m. m.t. observe the sun on the meridian the resulting lat. is.
 $38^{\circ}36' N.$

From the cor. of sec. 29, 30, 31nd & 32.

Run

$N.0^{\circ}03' 37''$.

Dist. secs. 29nd & 30.

Descending over broken land, dense oak and scattering Cedars and pinion.

1.00	Loc. run, course N. W.
4.70	Rail fence bears N. E. $45^{\circ} S. W.$
13.80	Leave cedar and pinion enter cultivated field.

Subdivision of 9.25 S., R. 24 E., continued.

Chains.	
16.50	Bear N. W. ^{and} S. E. Leave cultivated land, enter denser sage and oakbrush, bear E. ^{and} S. E.
18.00	Yagon road, bears E. ^{and} S. E.
21.50	Castle Creek, pure water
22.50	Elks. wide flows W. in ravine 50 ft. deep. ascend.
28.30	Sog stable on line.
29.45	Fence, bears E. ^{and} S. E. Enter orchard.
33.85	Martin R. Fish's stone house bears W. 700 chs.
35.35	Leave orchard, fence bears E. ^{and} S. E., and over broken ledges. Falls on boulders. 10x14x12 ft. $\frac{1}{4}$ cot. will fall on ground subject to slide. Therefore mark W. C. 14 S. 30 on S. E. 29 on E. faces.
40.00	and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high $\frac{2}{3}$ of boulders. It is impracticable falls in inaccessible ground and is not set.
41.00	Top of sand stone cliff's 400 ft. high. Bear N. W. ^{and} S. E.
50.00	Set a sand stone 16x10x6 ins. 11 ins in the ground for cot. of secs. 19, 20, 29 ^{and} 30. marked with 7 notches on the S. and 5 notches on the E. edges. raised a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high $\frac{2}{3}$ of cot. It is impracticable Land, mountainous soil, stony ^{1st} ^{and} ^{4th} rate Timber, Cedar ^{3d} pinon.

Subdivision of P. G. S. A. R. 24 E. continued.

Chains	Mountainous land, timber under-growth 80,000 chs.
	East over random line Lat. sec. 20 ⁹ ₃₀ 29.
40.00	Lat. temp. 14 sec. Cst. Intersection N. W. S. line 5 hrs.
80.06	S. of the Cst. of sec. 20, 21, 28 and 29.
	Prince Dens S. 89° 58' N. 11° 10' E. true line Lat. sec. 20 ⁹ ₃₀ 29, broken ledges.
100	Bad Canyon 6 chs. ridge 8 ft deck. comee 5.77.
40.03	Falls on Sand Stone ledge bearing E. 89° 37' mark cross on ledge, 14.5 ft on N. 79 on S. face raised a mound of stone 2 ft base 1 ft. high N. of Cst. It's impracticable ascend through scattering Cedars.
80.06	The cst. of sec. 19, 20, 29. 936 750. ft above 1/4 sec. cst. Land, broken Soil, stone 4 ft rated Timber, Cedar, Mountainous land 80.6 chs. Feb. 9th, 1901.

Feb 10th 1901.

At 8. A. M. L. M. T.,
Set off 38° 37' N. on lat. sec.
14²₂ S. on decl. arc; and
determine a true meridian
at the cst. of sec. 19, 20,
29⁹₃₀ 30.

Subdivision of T. 25 S., R. 24 E., continued.

Chains.

Yester on a true line
Set. Secs. 19^{and} 30.

Descending over broken
land, through scattering
Cedar and pinion

31.00 Rim rock, sandstone Cliffs
300 ft. high, bear N. 27° E.

40.00 Set a sandstone 18x10x6 ins.
12 ins. in the ground, for
1/4 sec. cor. marked 1/4 S. 19 on
N. 30° on S. faces.

From which a pinion 6 ins. in
diam. bears N. 53° 30' E. 34 lbs. dist.
marked 1/4 S. 19 B.G.

A pinion 6 ins. in diam.
Bears S. 77° E. 43 lbs. dist.
marked 1/4 S. 30 B.G.

68.10 Intersect Grand River Guide
Meridian 44 lbs. N. 26° W. of the Cor.
of secs. 19, 24, 25^{and} 30.

Previously described.

Obliterate all marks pertaining
to this T.P. and raise amount
of stone 2 ft. base, 1 1/2 ft. high
W. of cor. It's impracticable
and at intersection

Set a sandstone 16x12x10 ins.
11 ins. in the ground for
Closing cor. & Secs. 19^{and} 30
marked C.C. on E. with 2 grooves
on S. and 4 grooves on N.
faces,

From which a cedar 3 ins.
in diam. bears N. 70° E. 4 lbs.
dist. marked T. 25 S. R. 24 E. S. 19.
B.G. A pinion 6 ins. in diam.
Bears S. 45° E. 1 3 lbs. dist. marked
T. 25 S. R. 24 E. S. 30 B.G.

J.W. Davis' house bears S. E. 50 chs.

Subdivision of 9.25 S., R. 21 E., continued.

Chains.

Sand, mountainous soil, stony.	40 miles.
Piney, Cedar and pinon mountainous land,	68,100 chs.

From the cor. of secs. 19, 20, 29. ^{W.Y. 30.}
Elev.

2000 ft.

Loc. sec. 19 ^{W.Y. 30.}

Ascend over broken sandstone
boulders, scattering cedar and
pinion.

800 Ridge bears N.E. and S.W.
about 3 chs. to knole, S.W.

Descend through dense oak brush.

Set a sand stone 15 x 10 x 10 ins.
10 ins. in the ground, for 1/4
sec. cor. marked $\frac{1}{4} S. 19$ on N.W.
on E. faces raised a mound
of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high.
High. W. of cor.

Pits impracticable.

500 Sand stone ledge
bears N.W. and S.E.

Set a sand stone 18 x 12 x 3 ins
12 ins. in the ground, for
cor. of secs. 17, 18, 19 ^{W.Y. 30.}
marked with 5 notches on E.
and 3 notches on S. edges,
raised a mound of stone
2 ft. base, 1 $\frac{1}{2}$ ft. high W. of
cor.

Pits impracticable.

Sand, mountainous
soil, stony ^{40 miles}
Piney, Cedar and pinon
Dense undergrowth,

80,000 chs.

Subdivision of T. 25 S., R. 24 E. continued.

Chains

N. 89°58' E. on a random line
bet. secs. 17 and 20.

140.00 set temp. $\frac{1}{4}$ sec. cor.

80.10 Intersect N. and S. line
at the cor. of secs. 16, 17, 20
and 21.

Prince Iron

S. 89°58' 30" on a true line
bet. secs. 17 and 20.

Ascend along N. slope of
Canyon, through dense oak
and serviceberry brush,
scattering cedar and
pin on

15.00 Spur, projects N. descend
set a sandstone 15x13x4 ins.
10 ins. in the ground, for
 $\frac{1}{4}$ sec. cor. Marked $\frac{1}{4}$ S. 17
on N. 20 on S. faces, raised
a mound of stone 2 ft.
base, 10 ft. high N. of lot.
Pits impracticable.

Dry Ravine 50 ft deep.
Course N. ascended.

The cor. of secs. 17, 18, 19
and 20.

Sand, broken

soil stones ⁴ titrate.

Timber, Cedar and juniper

Dense under growth

80.10 ch

Lab 10th.

At this cor. I set off
 $140^{\circ}21'S.$ on decl. arc; and at
8h 14m p.m. l. m. t., observe the
sun on the meridian
The resulting lat. is:
 $38^{\circ}38' N.$

L.D.W.

Subdivision of S. 25 S., R. 24 E. continued.

Chains	
	West
	Set. secs. 18 ^W & 19.
	Ascending over broken land, through dense oak, scattering cedar and pinon.
40,000	On top of flat ridge bearing N. by E. 5. E.
	Set a sand stone 16x10x3 ins. 11 lbs. in the ground, for 1/4 sec. cor. marked 145.18 on N. 19 on S. faces, raised a mound of stone 2 ft. base, 1 1/2 ft. high N. of lot.
	Pits impracticable.
	Descend
- 6860	Intersect Grand river guide meridian 60 lbs. No. of the cor. of secs. 13, 18, 19 ^W & 24.
	Previously described, obliterate all marks pertaining to this sp. and raise a mound of stone 2 ft. base, 1 1/2 ft. high W. of lot.
	Pits impracticable.
	At point of intersection
	Set a sand stone 16x14x3 ins. 11 lbs. in the ground, for closing cor. to sec. 18 ^W & 19, marked C.C. 6pm E. with 3 grooves on the N. and S. faces, raised a mound of stone 2 ft. base, 1 1/2 ft. high E. of lot.
	Pits impracticable.
	Land broken, soil, stony, 4 th rate. Timber, cedar and pinon. Dense undergrowth
	68,600 chs.

Subdivision of T. 25 S., R. 24 E., Concluded.

chains.

From the cor. of secs.
17, 18, 19 ^{and} 20.

No. 03' N.

bet. secs. 17 ^{and} 18

Descending over broken
land, through dense oak
brush, scattering cedar and
pinon.

40.00 set a sand stone 16 x 11 x 3 ins.
11 lbs. in the ground, for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ S. 18 on N. 17
on E. faces raised a mound
of stone 2 ft. base, $\frac{1}{4}$ ft. high
of. of cor.

But impracticable.

This line cannot be con-
tinued to the cor. of secs.

18, 17 ^{and} 18. on account of
broken and precipitous
land.

Therefore, I discontinue the
line.

Land, broken

Soil, stony ^{4 th rate.}

Timber, Cedar ^{and} pinon.

Dense undergrowth

40.00 chs.

Feb. 10th 1901.

General Description.

This township is mountainous
and broken throughout. On
the south is spur ridges and
foot hills which form the
northern extremity of the Wasatch
Mountains; On the north is
broken sand stone mesa
and in the N. W. portion is
an almost inaccessible

General Description.

Country.

The soil is mostly stony, hyate, and is covered with a thin growth of grass and dense oak, serviceberry, sage brush, with scattering cedar and piñon scrub timber.

Only a small portion of the tp. is fit for agricultural purposes, being a narrow strip along Castle Creek and the extreme N.E. cor. of the tp. which is known as Fish Valley; there is abundant water for the agricultural land.

Joseph Harpole lives in the S.W. $\frac{1}{4}$ of sec. 30. Value of improvements \$200. C. J. Elliott, has left the country.

J. M. Davis lives in the N.E. $\frac{1}{4}$ of sec. 30. Value of improvements \$300. George H. Judd, lives in the S.E. $\frac{1}{4}$ of sec. 28. Value of improvements \$300. Martin R. Disk lives in the S.E. $\frac{1}{4}$ of sec. 30. Value of improvements \$150.

There is no mineral in this tp.

Fabert D. Page, U.S.
Deputy Surveyor, Comptroller for
James M. Lentz, U.S. Deputy
Surveyor

There being no Notary public or
other officer authorized to ad-
minister oaths, within reasonable
distance at the beginning or ending
of the survey, in order to save time
and expense, I administer the
preliminary and final oaths
myself.

Hubert S. Pages
U.S. Deputy Surveyor.

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, ^{Deputy Surveyor} ~~Compass~~
James McIntyre, United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of Subdividing
9.25 S. R. 24 E., of the Salt Lake Base and Meridian State of Utah.
showing the respective capacities in which they acted:

John S. Troy, Chainman.
Harvey D. Frost, Chainman.
Orson Allred, Moundman.
Orson Allred, Moundman.
Orson Allred, Axman.
Orson Allred, Axman.
Orson Allred, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, U.S. Deputy Surveyor
Compass-man for James McIntyre, United States Deputy Surveyor, in surveying all
those parts or portions of the Subdivision of 9.25 S. R. 24 E.

Salt Lake base and meridian, In the State of Utah, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
corner monuments established, according to the instructions furnished by the United States Surveyor
General for Utah.

John S. Troy, Chainman.
Harvey D. Frost, Chainman.
Orson Allred, Moundman.
Orson Allred, Moundman.
Orson Allred, Axman.
Orson Allred, Axman.
Orson Allred, Flagman.

scribed and sworn to before me this 11th
day of February, 189 } 189 }



Hubert D. Page

U.S. Deputy Surveyor

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

Robert Hazell, M. F., Surveyor General, by his Agent, United States Deputy Surveyor,
solemnly swear that, in pursuance of a contract received from *U. S. Surveyor General*, bearing date of *March 1, 1890*,
United States Surveyor General for *The District of Columbia*, I have well, faithfully, and truly, in my
114 day of *March 1900*, 1890, I have well, faithfully, and truly, in my
proper person, and in strict conformity with the instructions furnished by the United States Surveyor
General for *The District of Columbia*, the Manual of Surveying Instructions, and the laws of
United States, surveyed all those parts or portions of *the established survey lines of the 9th*
R. 24 E.

of the Salt Lake
Baseline meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for The District of Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed by said Hezekiah Dyer, and sworn to before me
this 4th day of December, 1891.



Edward Henderson
G. Henry General Contractor

APPROVAL -

OFFICE OF THE UNITED STATES SURVEYOR GENERAL

Salt Lake City, Utah January 14, 1902 189

The foregoing field notes of the survey of the Subdivision lines of N. 955
Rd 46 of the Salt Lake Base and Meridian, Utah

executed by Nelbert Chapman, Surveyor in Charge, M.L. T. G.S.A., etc.,
under his contract No. 1235, dated March 14, 1910, having been
critically examined, and the necessary corrections and explanations made, the said field notes, and
surveys they describe, are hereby approved.

Edward H. Rudelessey
United States Surveyor Gen.

I certify that the foregoing transcript of the field notes of the above-described surveys in _____, has been correctly copied from the original notes on file in this office.

BOOK A-281

FIELD NOTES

OF THE SURVEY OF THE

East, South

3d

S - 2 - 5

West boundaries
ofTownship No. 11 South
Range No. 2 Eastof the Salt Lake base and Meridian,
In the state of Utah.

Herbert D. Page, ^{AS SURVEYED BY} ~~E. J. Deputy Surveyor~~
 Companion for James D. Lentz, United States Deputy Surveyor,
 Under his Contract No. 238, dated March 14th, 1890.

Survey commenced	July 16 th	1901., 189
Survey completed	July 21 st	1901., 189

G-101

E. D. D.	5.55.88 ¹	
Closing		48.10 ¹
S. D. D.	5.77.60 ¹	
D. D. D.	3.00.00 ¹	

NAMES AND DUTIES OF ASSISTANTS.

William Osgood Chairman

Peter Meyer "

Yannick Hansen Ground man

Cleon Jackson "

Yannick Hansen Altman

Cleon Jackson "

Jay Morrison Flagman

BOOK A-281

INDEX DIAGRAM.

Township....., Range.....

6	5	4	3	2	1
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19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

We, William O. Malquist and Peter Meyer

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of East South West bds of T. 11 S., R. 2 E. of the Salt Lake base meridian,
State of Utah

William O. Malquist, Chainman.

Peter Meyer, Chainman.

Subscribed and sworn to before me this 15th
day of July, 1891 }



Varnick Hansen

Hubert D. Page,

U.S. Deputy Surveyor.

WE, Varnick Hansen and Leon Jackson

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of East South West bds of T. 11 S., R. 2 E. of the Salt Lake base meridian,
State of Utah

Varnick Hansen, Moundman.

Leon Jackson, Moundman.

Subscribed and sworn to before me this 15th
day of July, 1891 }



Varnick Hansen

Hubert D. Page,

U.S. Deputy Surveyor.

WE, Varnick Hansen and Leon Jackson

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of East South West bds of T. 11 S., R. 2 E. of the Salt Lake base meridian,
State of Utah.

Varnick Hansen, Axman.

Leon Jackson, Axman.

Subscribed and sworn to before me this 15th
day of July, 1891 }



Jay Morrison

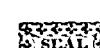
Hubert D. Page,

U.S. Deputy Surveyor.

I, Jay Morrison, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of East South West bds of T. 11 S., R. 2 E. of the Salt Lake base meridian,
State of Utah.

Jay Morrison, Flagman

Subscribed and sworn to before me this 15th
day of July, 1891 }



Hubert D. Page,

U.S. Deputy Surveyor.

Cast boundary of T. 11 S., R. 2 E.

Survey Commenced

July 16 1901

and executed with a W. and L. C.
Guiley light mountain transit
No. — with solar attachment.

The horizontal limb is
provided with two double
verniers placed opposite to each
other, reading to single minutes
of arc which is also the least
Count of the vernier of the
latitude and declination arcs.

The instrument was examined,
tested on the true meridian
at Salt Lake City, and found
correct, and was approved by the
Surveyor general for Utah.

May 35, 1901

I examine the adjustments
of the transit and find them
correct; then to test the solar
apparatus by comparing its
indications, resulting from
solar observations made during
A.M. and P.M. hours, with a
true meridian determined by
observations on Polaris.

I proceed as follows:

July 16 At the established cor.

To Tps. 11nd and 12th S.; Rs. 2nd and 3 E.

Latitude $39^{\circ} 48' 40''$ N.

longitude $111^{\circ} 40' 19''$ W.

which is a granite stone $4 \times 12 \times 12$
ins. above the ground, firmly
set, marked and witnessed as
described by the surveyor general.

At 4 p.m. I set off
 $39^{\circ} 49'$ on the lat. arc: $21^{\circ} 53' 41''$

on decl. arc and determine with
the solar a true meridian.

East boundary of T. 11 S., R. 3 E. Continued.

and mark a point - thereof on a stone set firmly in the ground.
5.00 chs. W. of the Col.

At 11 h. 49 m. p.m. I. m. t.
observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point on the line thus determined on a pin - driven in the ground, 5 chs. W. of my station. July 16. 1901

July 17: At 6 A. M. I. m. t. I lay off the azimuth of Polaris $1^{\circ}35'$ to the west and mark the True Meridian thus determined, by cutting a small groove in the stone set July 16. on which the true meridian thus determined falls on the mark made from the p. m. solar observation.

At 7 A. M., I. m. t. I set off $39^{\circ}49'$ from the lat. arc: $81^{\circ}17'$ H. on the decl. arc: the true meridian thus determined falls on the mark made from the p. m. solar observation, and is identical with the Polaris observation.

The solar apparatus by p. m. and A. M. observations, defines three meridians, same as by Polaris observation, therefore the adjustments of the instrument are correct.

East boundary of T. 11 S., R. 2 E. Continued

Chains

The magnetic bearing of the true meridian, at $87^{\circ} 55'$ A. M. is H. 16° 32' W. the angle thus determined, reduced by the table, page 100, gives the mean mag. decl. 16° 26' O.

From the cor. already described I run

North, bet. secs. 31 and 36, on E. bdy. of Twp. Descend through heavy aspen timber.

28.00 Bottom of ravine, 200 ft. deep, Course H. W.

Leave aspen-timber bears E. and W. Enter dense oak brush.

Top of ridge, bears H. W. and S. E.

Set a red sandstone 18 x 6 x 6 ins. 12 ins. in the ground, for $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$ S. 36. on W. and 31. on E. face; and raise a mound of stone. 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

41.00 Head of ravine, Course H. W.

Set a red sandstone 18 x 6 x 6 ins. 12 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 5 notches on the H. and 1 notch on the S. edges; and raise a mound of stone. 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

This cor. is 800 ft. below the township cor.

Land mountainous.

Soil stony 3rd Rate.

Timber aspen.

Mountainous land 80.00 chs.

East boundary of T. 11 S., R. 8 E. Continued

Chains

- North, bet. secs. 25 and 30, on E. bdy of Spur.
Over rolling land, descending through dense oak brush.
- 21.00 Top of Spur, 500 ft. high, projects west.
- 30.00 Head of ravine, 800 ft. deep, crossed H. W. Begin steep ascent.
- 40.00 Set a red sandstone 16x12x6 ins. 11 ins. in the ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 25, on W. and 30. on E. faces: and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. This impracticable.
- 44.25 Top of Spur, projects H. W. Descend.
- 73.50 Enter heavy aspen timber, bears H. 26° E. and S. E. of cor.
- 80.00 Set a hachyle-stone 18, 8x8 ins. 12 ins. in the ground, for cor. of secs. 19, 24, 25, 30. marked with 4 notches on the H. and 2 notches on S. edges: from which
An aspen, 2 ins. diam., bears H. 26° E. 13 lbs. dist. marked T. 11 S., R. 3 E., S. 19, B. T.
- An aspen, 3 ins. diam., bears S. 66° E. 8 lbs. dist. marked T. 11 S., R. 3 E., S. 30, B. T.
- An aspen, 3 ins. diam., bears S. 25° W. 37 $\frac{1}{2}$ lbs. dist. marked T. 11 S., R. 2 E., S. 25, B. T.
- An aspen, 4 ins. diam., bears H. 68° 30' H. 18 lbs. dist. marked T. 11 S., R. 2 E., S. 24, B. T.
- This cor. is 1000 ft. below the cor. of secs. 25, 30, 31, and 36.
Land mountainous.

BOOK A 201

Cast boundary of T. 11 S., R. 2 E. Continued.

Chains

Sorb & Stony 3rd Rate
 Timber & aspen
 Mountainous land 80.00 chs.

July 17. At this cor. I set off $21^{\circ} 15'$ H. on the decl. arc: and at $0^{\circ} 6'$ p. m. I. on the asc. to observe the sun on the meridian; the resulting lat. is $39^{\circ} 50' N.$

North, bet. secs. 19 and 24, on E. bdy of Tp.
 Over rolling land, descend through heavy aspen-timber.
 6.00 Leave aspen timber, bears E. and W.
 Enter dense oak bush
 40.00 Set a sandstone 15 x 10 x 8 ins.
 10 ins. in the ground, for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 24. on
 It. and 19. on E. faces: and
 raise a mound of stone, 2 ft.
 base, 1 $\frac{1}{2}$ ft. high, Jr. of cor.
 It is impracticable.

54.00 Canon road, bears W. E. and S. W.
 54.30 Nebo Creek, 8 lbs. wide, pure water,
 10 ins. deep, in Canon 1200 ft. deep,
 Course, It. 60° E.

The junction of the north and south fork of Nebo Creek, is 5.00 chs. west.

Begin steep ascent over stony land, along the east slope of spur, projecting S.
 80.00 Set a red sandstone 10 x 10 x 8 ins. 8 ins. in the ground, for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on It. and S. edges and raise it

East boundary of T. 11 S. R. & B. Continn

Chains

Ground of stone, 2 ft. base,
1½ ft. high, W. of Cor.
Pits impracticable.

Land mountainous

Soil stony 3rd and 4th Rate
Timber aspen.

Mountainous land, 80.00 chs.

July 17, 1901

July 18 : At 7 a. M. I. set off
39° 5' W. on the lat. arc: 21° 8' N.
on the decl. arc: and determine a
true meridian with the solar
at the cor. of Secs. 13, 18, 19 and 24.
Thence I run

North, bet. Secs. 13 and 18. on E. bdy. of 17th
Ascend over broken and stony
land, through dense oak
brush, along the east slope
of high ridge, bearing N. and S.

40.00 Set a sandstone 12×9×6 ins.
8 ins. in the ground, for 4 sec.
Cor. marked $\frac{1}{4}$ S. 13. on N. and
18. on E. faces: and raise a
mound of stone, 2 ft. base,
1½ ft. high W. of Cor.
Pits impracticable.

76.50 Top of high spur, projecting E
1000 ft. above Sec. cor.
Descend through scattering
fine timber.

- 80.00 Set a sandstone 18×6×6 ins. 12
ins. in the ground, for cor. of
secs. 7, 12, 13 and 18, marked with
2 notches on the N. and 4
notches on S. edges:
from which

A fine, 6 ins. diam. tree S. 88° E.

74 lbs. dist. marked T. 11 S. R.

East boundary of T. 11 S. R. 2 E. Continued

Chains

S. E., S. 18 B. T.

A pine, 4 ins. diam. bears

S. 66° 30' W., 43 lbs. dist. marked

T. 11 S. R. 2 E. S. 13. B. T.

A pine, 8 ins. diam. bears

H. 87° W., 69 lbs. dist. marked

T. 11 S. R. 2 E. S. 12. B. T.

No other trees within limits,
and raise a mound of
stone, 2 ft. base, 1 $\frac{1}{2}$ ft.
high. W. of cor.

Pt. impracticable.

Land mountainous

Soil stony.

Timber, scattering fine.

Mountainous land 80.00 chs.

July 18: At this cor., I set

off 81° 04' W. on the decl.

arc; and at 0° 6" f. W. l. m. l.

Observe the sun on the
meridian; the resulting lat.
is 39° 58'!

North, bet. secs. 7 and 12. On C. bdy. of P.
descend through dense artemisia
scrub oak and scattering fine
over broken land.

Shrub, 100 ft. dep., coarse C.

Ascend.

Leave scattering fine.

Set a sandstone 12 x 10 x 6 ins. 8
ins. in the ground, for $\frac{1}{4}$ sec.
Cor., marked $\frac{1}{4}$ S. 12. on W. and
7. on C. faces; and raise a
mound of stone, 2 ft. base,
1 $\frac{1}{2}$ ft. high, W. of cor.

Pt. impracticable.

Point of heavy aspen timber,

8.00

17.50

40.00

44.50

East boundary of T. 11, S. M. & C. Cont'd

Claims

	bears H. E. and S. Jr.
	Cutter dense oak, Savine berry and maple brush.
- 80.00	Set a quartzite stone 12 x 3 x 6 ins 8 ins. in the ground, for cor. of Secs. 6, 7 and 12. marked with 1 notch on the north, and 5 notches on S. edges: from which A maple, 6 ins. diam. bears H. 3 & C., 22 lbs. dist. marked T. 11 S. R. 3 E., S. 6. 93. T. No other trees within limits. And raise a mound of stone, 2 ft. base, 1 1/2 ft. high. H. of cor. With impenetrable. This cor. is 800 ft. below the cor. of secs. 7, 12, 13 and 18. Land mountainous. Soil stony. 3 = Rate. Timber Aspen, Maple and pine. Mountainous land, 80.00 chs.

	North. bet. Secs. 1 and 6 on Ebd. of Th. Cutter broken land, descending along the E. slope of the It. bank of a fork of Illo Canon, through dense oak, maple and Savine berry brush. Cutter heavy aspen and pine timber bears C. and Jr.
8.15 40.00	Set a sandstone 18 x 10 x 3 ins. 12 ins. in the ground, for 4 sec. cor. marked with t. s. 1 on E. and C. on C. faces: from which A Maple 3 ins. diam. bears H. 2 & C. 22 lbs. dist. marked t. s. 6. 93. T.

East boundary of T. 11 S. R. & C. Continued.

Chains

A fine, 6 ins. diam., bears 21.74° W.
35 lbs. dist., marked $\frac{1}{4}$ S. 1 $\frac{1}{2}$ T.

Drag road, bears N. W. and S. E.

Fork of Hebo Creek, 3 lbs. wide,
fine water, 4 ins. deep, in
Cañon 1000 ft. deep, Course S. 85° E.
Begin ascent-

Junction of a ravine 300 ft. deep,
with Cañon, from the west,
6.00 chs. west.

Intersect 2nd Standard
Parallel South, 48.10 chs. E. of
the Standard Cor. - to Tps. 10 S.
Rs. 2nd and 3 E.

Set a red sandstone 16 x 14 x 10 ins.
11 ins. in the ground, for
Closing cor. - to Tp. 11 S., Rs. 2nd and 3
E. marked with C. C. on S.
face, and with 6 grooves on
E. W. and S. faces.

from which

A fine, 18 ins. diam., bears
 3.53° W., 29 lbs. dist., marked
T. 11 S., R. 2 E. S. 1, . . ., $\frac{1}{2}$ T.

A marble, 3 ins. diam., bears
 35.30° E., 48 lbs. dist., marked
T. 11 S., R. 3 E. S. 6, . . ., $\frac{1}{2}$ T.

Land mountainous

Soil, stony 3rd Rate

Timber, open, pine
and maple.

Mountainous land, 55.85 chs.

July 18- 1901

South boundary of T. 11 S. R. 2 E.

Chains

- July 19: At 7 a. m., I set I.
 Set off $39^{\circ} 49'$ N. on the lat. arc
 $20^{\circ} 57'$ N. on the decl. arc. and
 determine a true meridian
 with the solar. at the cor. of
 Tps. 11 and 12 S. R. 2 and 3 E.
 previously described
 Thence I run
 West bet. secs. 1 and 3. 6 on S. bdy. of Tp.
 Descend through heavy aspen
 timber along the north slope
 of a ridge, bearing E. and W. over
 broken land.
- 32.00 Enter scattering pine-timber.
- 40.00 Set a trachyte stone, $15 \times 9 \times 6$ ins.
 10 ins. in the ground, for $\frac{1}{4}$ sec.
 Cor. marked $\frac{1}{4}$ S. 36. on It. and
 1, on S. faces:
 from which
 A pine, 6 ins. diam. bears North
 15 hrs. dist. marked
 $\frac{1}{4}$ S. 36. 93. T.
- A pine, 8.2 ins. diam., bears South
 25 hrs. dist. marked
 $\frac{1}{4}$ S. 1. 93. T.
- 44.00 Bottom of ravine, 500 ft. deep,
 Course It. ascend
 Leave pine-timber as and - through
 dense undergrowth and
 scattering aspen-timber.
- 60.00 Top of spur, projects It. descend
- 80.00 Set a trachyte stone $12 \times 10 \times 8$ ins.
 9 ins. in the ground, for
 Cor. of secs. 1, 2, 35, and 36, marked
 with 1 notch on the E. and 5
 notches on W. edges:
 from which
 An aspen, 4, ins. diam. bears It. 28°
 E., 40 hrs. dist. marked
 T 11 S. R. 2 E. S. 36. 13. T.

South boundary of T. 11 S. R. 2 E. Continued
Chains

An aspen, 10 ins. diam., bears S. 81° W.
83 lbs. dist. marked

T. 12 S. R. 2 E. S. L. B. T.

An aspen, 12 ins. diam., bears
N. 44° W. 50 lbs. dist. marked

T. 11 S. R. 2 E. S. 35. B. T.

No other trees within limits,
and raise a mound of
stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
ft. of cor.

Pits impracticable.

Land mountainous

Soil stony 3 $\frac{1}{2}$ Rate.

Timber aspen and pine.

Mountainous land, 80.00 chs.

West, bet. secs. 2 and 3. On N. bdy. of Tp.
Ascend, through heavy aspen,
and scattering pine timber.

Top of ridge! bears N. and S.
Descend.

6.00

27.80

32.00

39.00

40.00

South boundary of T. 11 S., R. 2 E. Continued

Chains

78.00 Top of ridge, bears N. W. and S. E.

80.00 A fine tree 6 ins. diam. for cor.
off secs. 3, 3, 34 and 35.
... marked

T. 11 S., S. 35. on H. E.

H. & E., S. E. on S. C.

T. 12 S., S. 3. on S. W. and
S. 34 on H. W. sides: with 2 notches
on the E. and 4 notches on the
west sides: from which
A fine, 4 ins. diam. bears H. 42° E.
15 lbs. dist. marked

T. 11 S. H. & E. S. 35. B. T.

A fine, 10 ins. diam., bears S. 28° E.
1.81 chs. dist. marked

T. 12 S. H. & E. S. 3. B. T.

A fine, 18 ins. diam., bears S. 38° W.
60 lbs. dist. marked

T. 12 S. H. & E. S. 3. B. T.

A fine, 4 ins. diam. bears H. 88° W.
45 lbs. dist. marked

T. 11 S. H. & E. S. 34. B. T.

Land mountainous.

Soil stony. 3rd Rate.

Timber aspen and pine.

Mountainous land 8000 chs.

July 19. At this cor. I set
off 80' 53" H. on the decl. arc:
and at 0° 6" fr. M. L. on L.
observe the sun on the
meridian, the resulting
lat. is 39° 49'.

West, on a line line, bet.
secs. 3 and 34, on the S. bdy.
of the township.

On broken land, descended

South Boundary of T. 11 S., R. 2 E. Continue

Chains	through scattering aspen and fine timber.
40.00	Set a sandstone 14x12x8 ins. 10 ins. in the ground, for 4 sec. cor. marked T. S. 34. on the N. and S. on S. faces: And raise a mound of stone, 2 ft. base, 12 ft. high, N. of cor. Rate impracticable.
42.00	Bottom of ravine, 600 ft. deep, Course N. ascend.
55.00	Top of ridge, bears N.E. and S. E. Descend through heavy aspen timber.
80.00	Set a quartzite stone 16x14x10 ins. 11 ins. in the ground, for cor. of Secs. 3, 4, 33 and 34, marked with 3 notches on E. and W. edges: from which Quaking, 3 ins. diam., bears N. 36° E. 28 lbs. dist. marked T. 11 S., R. 2 E. S. 34. 93. T. Quaking, 3 ins. diam., bears S. 82° E. 12 lbs. dist. marked T. 12 S., R. 2 E. S. 3. 93. T. Quaking, 3 ins. diam., bears S. 78° W. 29 lbs. dist. marked T. 12 S., R. 2 E. S. 4. 93. T. Quaking, 3 ins. diam., bears N. 44° W. 19 lbs. dist. marked T. 11 S., R. 2 E. S. 33. 93. T. Land mountainous Soil stony & Rate. Timber aspen and pine. Mountainous land 80.00 lbs.

Next, on a line line, bet. Secs.
4 and 33, on the S. bdy. of the Twp.

South boundary of T. 11 S. R. & C. Continued

Chains

	Ascend, through dense oak bush, laurel and scattering aspen.
12.80	Top of spur, projects S. W. descend.
23.00	Bottom of ravine, 800 ft. deep. Course S. ascend.
32.80	Top of spur, projects S. descend.
37.50	Bottom of ravine, 200 ft. deep. Course S. C. ascend.
40.00	Set a trachyte stone 15 x 10 x 8 ins. 10 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 33. on N. and 4. on S. faces: and raise a mound of stone, 8 ft. base, 1 $\frac{1}{2}$ ft. high, N. of Cor. This impracticable.
73.30	Top of ridge, bears N. E. and S. W. Descend.
- 80.00	Set a quartzite stone, 18 x 12 x 8 ins. 8 ins. in the ground, for cor. of secs. 4, 5, 32 and 33. Engraved with 4 notches on E. and 2 notches on W. edges: from which A aspen, 3 ins. diam., bears H. 76° E. 26 lbs. dist. marked T. 11 S., R. & C., S. 33. B. T.
	A aspen, 3 ins. diam., bears S. 86° E. 30 lbs. dist. marked T. 12 S., R. & C., S. 4, B. T.
	A aspen, 6 ins. diam., bears S. 11° W. 30 lbs. dist. marked T. 12 S., R. & C., S. 5, B. T.
	A aspen, 4 ins. diam. bears H. 21° W. 36 lbs. dist. marked T. 11 S., R. & C., S. 32. B. T.
	Land mountainous. Soil stony 3 $\frac{1}{2}$ Rate. Timber aspen.
	Mountainous land. 80.00 chs.

July 19, 1901

South boundary of T. 11 S., R. 2 E., Contained

Chains

- July 20: At 7 A.M. l. m. l., I
set off $39^{\circ}49'N$ on the lat.
arc: $20^{\circ}46'W$ on decl. arc:
and determine a true meridian
with the solar. at the cor.
of secs. 4, 5, 32 and 33.
Thence we run
West, on a true line, bet. secs.
5 and 32, on the S. bdy. of
the township.
Steep descent, through dense
oak, laurel, maple bush
and scattering aspen timber.
East fork of Salt Creek, 4 lbs.
wide, pure water, 6 ins. deep,
in Canon 1500 ft. deep.
Course S. W. begins steep ascent.
Top of high spur, projecting S.
Set a Sandstone $16 \times 12 \times 6$ ins.
11 ins. in the ground, for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ S. 32. on
It. and 5. on S face: and
raise a mound of stone, 2 ft.
base, $1\frac{1}{2}$ ft. high, It. of cor.
Virtually impracticable.
Begin steep descent.
West fork of Salt Creek, 6 lbs.
wide, pure water, 10 ins. deep,
in Canon, 1500 ft. deep, Course
S. C.
Begin steep ascent over
rocky land.
Set a Sandstone $18 \times 10 \times 8$ ins.
12 ins. in the ground, for
Cor. of secs. 5, 6, 31 and 32, marked
with 5 notches on E. and 1
notch on N.W. sides: and raise
a mound of stone, 2 ft. base,
 $1\frac{1}{2}$ ft. high, It. of Cor.
Virtually impracticable.

South boundary of T. 11 S. R. & E. Continued

Chains

Land mountainous
Soil stony 3rd and 4th Rule -
Timber. Scattering aspen.
Mountainous land 80.00 chs.
July 20: At this Cor. I set off
 $20^{\circ}45' H.$ on the decl. arc: and
at 0^h. 6^m. p. M., l. m. t., observe
the sun on the meridian,
the resulting lat. is $39^{\circ}49' N$

West, on a line line, bet. secs. 6 and
31, on the S. bdy. of the Tp.
Begin steep ascent, over
Sandstone ledges and broken
land, on the east slope
of high mountain ridge,
running north from
Mount Hebo.

- 40.00 Set a Sandstone 18x10x6 ins., 12
ins. in the ground for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ S. 31. on H. and
6. on S. faces: and raise a
mound of stone, 2 ft. base,
1 $\frac{1}{2}$ ft. high, It. of Cor. Pts. impracticable.
77.60 Allowing for Coningency...
Set a Sandstone 20x12x8 ins.
15 ins. in the ground, for
Cor. of Tps. 11 and 12 S. R. 1 and 2 E.
marked T 11 S. on H. W., R. & E. on
H. E., T. 12 S. on S. E., R. 1 E. on
S. W. faces, with 6 notches on
each ledge: and raise a mound
of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high
It. of Cor. Pts. impracticable.
This Cor. is 2000 ft. above the Cor. of secs. 5, 6, 31 & 32.
From this Cor. the U. S. Geological station stands
on Mt. Hebo, bears S. $80^{\circ}47' W.$, 50.86 chs dist.
Land mountainous.

South boundary of T. 11 S. R. 2 E. Concluded.

Chains

Soil, stony 4th Rate.
No timber
Mountainous land 77.60 chs.
July 20, 1901.

West boundary of T. 11 S. R. 2 E.

July 21, 1901

At 7 A. M. I. M. L., I set off $39^{\circ}49'$ on the lat. arc: $20^{\circ}35'$ H. on the decl. arc: and determine a true meridian with the solar, at the cor. of Twp. 11 and 12 S. R. 1 and 2 E. set by us. July 20.

Thence we run North, on a true line, bet. secs. 31 and 36, on the W. bdy. of the tp.

Along the steep, rocky, east slope, of high mountain ridge, running north from Mount Hebo, descending.

40.00 Set a sandstone, $18 \times 10 \times 6$ ins. 12 ins. in the ground, for $\frac{1}{4}$ sec. Cor. marked $\frac{1}{4}$ S. 36. on W. and 31, on E. faces: and raise a mound of stone, 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor.

Pits impracticable.

80.00 Set a sandstone $16 \times 12 \times 12$ ins. 11 ins. in the ground, for cor. of secs. 25, 30, 31 and 36, marked with 1 notch on the S. and 5 notches on the N. edges: and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor.

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West boundary of T. 11 S., R. 2 E., Continue
chains

	Pits impracticable.
	Land mountainous.
	Soil stony 4 th Rate.
	No-timber.
	Mountainous land 80.00 chs.

	North, on a true line, bet. secs. 25 and 30, on the west body. of the Tp.
	Over rocky, broken land, descend along the east slope of a high mountain ridge, bearing N. and S.
40.00	Set a Sandstone 16x10x10 ins. 11 ins. in the ground, for sec. Cor., marked $\frac{1}{4}$ S. 25, on N. and 30, on C. face: and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of Cor.
	Pits impracticable.
- 80.00	Set a Sandstone 18x10x10 ins. 12 ins. in the ground, for Cor. of secs. 19, 24, 25 and 30, marked with 8 notches on the south, and 4 notches on the north edges: and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of Cor.
	Pits impracticable.
	Land mountainous
	Soil stony, 4 th Rate.
	No-timber.
	Mountainous land, 80.00 chs.

North, on a true line, bet. secs.
19 and 24, on W. body. of Tp.

West boundary of T. 11 S. R. & C. Continued

Chains

- Descend over broken, rocky land.
- 1.50 Bottom of ravine, 800 ft. steep Course N. E. Begin steep ascent.
- 40.00 Set a Sandstone, 20x12x12 ins. 15 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 24, on W. and 19, on E. faces: and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.
- 52.00 Top of sharp rocky ridge, bears N. W. and S. E.
- Begin abrupt descent.
- 75.50 Enter heavy aspen and scattering fine timber bears N. W. and S. E.
- 80.00 Set a slate stone 20x8x4 ins. 15 ins. in the ground for cor. of secs. 13, 18, 19 and 24, marked with 3 notches on the N. and S. edges:
- from which
- A aspen, 3 ins. diam. bears N. 18° E.
12 lbs. dist. marked
T. 11 S. R. & C. S. 18, B. T.
- A aspen, 4 ins. diam. bears S. 40° E.
9 lbs. dist. marked
T. 11 S. R. & C. S. 19, B. T.
- A aspen, 3 ins. diam. bears S. 6° W.
17 lbs. dist. marked
T. 11 S. R. 18, S. 24, B. T.
- A aspen, 6 ins. diam., bears N. 22° W.
20 lbs. dist. marked
T. 11 S. R. 18, S. 13, B. T.
- Land mountainous
- Soil stony, 3 $\frac{1}{2}$ and 4 $\frac{1}{2}$ th Rate.
- Timber aspen and pine.
- Mountainous land 80.00 chs.

West boundary of T. 11 S., R. 1 E. Conclude

Note:

On account of the abrupt banks of Modna Canon and the impassable condition of broken ledges of high mountain ridge I discontinue this line.

July 21, 1901

Boundingaries of T. 11 S., R. 1 E.
Latitudes Departures ^{and} Closing Errors.

Line designated	True bearing	Distances	Latitudes		Departures	
			E.	S.	E.	W.
5 th Stan.						
Parallel South	West	400.00				400.00
H. bdy. sec. 19	West	77.35				77.35
I. bdy. of secs..						
5, 8 & 14	S. 03 E.	816.00	816.00		19	
" of Tp.	South	840.00	840.00			
S. bdy. of Tp.	East	477.60			477.60	
C. bdy. of Tp.	North	455.85	455.85			
Convergency						.53
Total		455.85	456.00	477.79	477.88	
				455.85		477.79
Errors in lat. ^{and} dep.			0.15			0.09

For General Description, see
Book of Subdivisions of
T. 11 S. R. 1 E.

Robert D. Page, U.S. Deputy
Surveyor Compass-man for
James M. Dent, U.S. Deputy Surveyor.

There being no Notary public or other officer authorized to administer oaths, within reasonable distance, at the beginning or ending of the Survey, in order to save time and expense, I administer the preliminary and final oaths myself.

Hubert D. Payne
U.S. Deputy Surveyor.

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of
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PAGE

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, U.S. Deputy Surveyor
for James M. Lentz, United States Deputy Surveyor, to assist in running, measuring, and
marking the lines and corners described in the foregoing field notes of the survey of the East, South
West bds. of T. 11 S., R. 2 E. of the Salt Lake base ^{2d} meridian, State of Utah.
showing the respective capacities in which they acted:

William O. Halquist, Chainman.
Peter Meyer, Chainman.
Varnick Hansen, Moundman.
Cleon Jackson, Moundman.
Varnick Hansen, Axman.
Cleon Jackson, Axman.
Jay Morrison, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, U.S. Deputy Surveyor, ^{Companions}
for James M. Lentz, United States Deputy Surveyor, in surveying all
se parts or portions of the East, South and West bds. of
T. 11 S., R. 2 E. of the S

base ^{and} State of Utah, which are represented
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the
said monuments established, according to the instructions furnished by the United States Surveyor
General for Utah.

William O. Halquist, Chainman.
Peter Meyer, Chainman.
Varnick Hansen, Moundman.
Cleon Jackson, Moundman.
Varnick Hansen, Axman.
Cleon Jackson, Axman.
Jay Morrison, Flagman.

scribed and sworn to before me this 6th
day of August, 1891 }



Hubert D. Page
U.S. Deputy Surveyor.

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D. Page, Congressman from James M. Dentz, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob C. Plain, United States Surveyor General for the District of Dela., bearing date of the 1st day of March, 1900, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the District of Dela., the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the East, South & West Boundaries of Township 11, South Range 2, East of the

Base and meridian, in the State of Dela., which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the District of Dela., and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Hubert D. Page U.S. Deputy Surveyor
Comptroller for James M. Dentz
United States Deputy Surveyor.

Subscribed by said Hubert D. Page and sworn to before me }
this 18th day of September 1900. N.Y. }

SEAL

Edward H. Anderson
Surveyor General for Dela.

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Valhalla, N.Y., Dela., June 14, 1902. No. 2

The foregoing field notes of the survey of the East, South & West Boundaries of Township 11, South Range 2, East of the Chalk Park, Base of Precipice, Dela.

executed by Hubert D. Page, Congressman from James M. Dentz, U.S. Deputy Surveyor, under his contract No. 238, dated March 14, 1900, N.Y., having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson
United States Surveyor General.

I certify that the foregoing transcript of the field notes of the above-described surveys in Pl., has been correctly copied from the original notes on file in this office.

United States Surveyor General.

P
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FIELD NOTES

OF THE SURVEY OF THE

Subdivisions
of
Township No. 11 South.
Range No. 2 East

or the Salt Lake base and Meridian,
In the state of Utah.

Deed of Survey P. J. Deputy Surveyor
Commissioner for James Drury, United States Deputy Surveyor,
Under his Contract No. 138, dated March 11th, 1890.

Survey commenced July 22nd 1891
Survey completed Aug. 28th 1891

m. ch. obs.
Sals. high 57-31-82 ✓
Close 41-70 ✓

NAME AND DUTIES OF ASSISTANTS.

William Capayquish Chairman

Otter Major

Warwick Hanson Mountaineer

George Gaskins

Warwick Hanson Automobile

George Gaskins

George Gaskins Flagman

George Gaskins Flagman

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16	17	18	15	14	13
19	20	21	22	23	24
26	29	28	27	26	25
31	32	33	34	35	36

Meanders Page.....

PRELIMINARY OATHS OF ASSISTANTS.

WE, William O. Halquist and Peter Moyer

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level + chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; + we will report the true distances to all notable objects, and the true lengths of all lines that we assist measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey
Subdivision of S. 11, R. 2 E. of the Salt Lake base meridian
State of Utah

William O. Halquist, Chain...
Peter Moyer, Chain...

Subscribed and sworn to before me this 15th
 day of July, 1801 }



WE, Varnick Hansen and

Cleon Jackson

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey
Subdivision of S. 11, R. 2 E. of the Salt Lake base meridian,
State of Utah.

Varnick Hansen, Moundm...
Cleon Jackson, Moundm...

Subscribed and sworn to before me this 15th
 day of July, 1801 }



WE, Varnick Hansen and

Cleon Jackson

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey
Subdivision of S. 11, R. 2 E. of the Salt Lake base meridian,
State of Utah.

Varnick Hansen, Axm...
Cleon Jackson, Axm...

Subscribed and sworn to before me this 15th
 day of July, 1801 }



I, Jay Morrison, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivision of S. 11, R. 2 E. of the Salt Lake base meridian,
State of Utah.

Jay Morrison, Flag...

Subscribed and sworn to before me this 15th
 day of July, 1801 }



Hubert D. Page,
U.S. Deputy Surveyor

Subdivisions of T. 11 S., R. 2 E.

Chains

Survey commenced July 22, 1901,
and executed with the
instrument described in
Book O.
of this survey.

I know the instrument
to be in adjustment by
recent observations made
July 16th and 17, 1901.

And recorded in
book O.
of this survey.

July 22: At 7 A.M. b. m. I.
Set off 39° 49' N. on the lat.
arc: 20° 23' W. on the decl. arc:
And determine a true
meridian with the solar,
on the S. bdy. of the Tp.
at the cor. of secs. 1, 2, 35 and 36
herefore described.

Thence I run

41.0' N. bet. secs. 35 and 36.
Over broken land, descend
through heavy aspen and
scattering pine timber,
along the east slope of
Silsby mountain ridge,
bearing N. 36° S.

40.00 Set a brachyle-stone 12x12x6 ins.
8 ins. in the ground, for
sec. cor., marked N. S. 3.5. on
W. end 36, on E. faces:

from which

All aspen, 3 ins. diam., bears S. 10° E.
14 lbs. dist., marked N. S. 3.5. B. T.

An aspen, 4 ins. diam., bears N. 16° W. 9
lbs. dist., marked N. S. 3.5, B. T.

Top of red sandstone ledge
50 ft. high, bear E. 34° N. discolor.

Set a sandstone 24x24x12 ins.

71.00

80.00

Subdivision of T. 11 S., R. 2 C. Continued

Chains

18 ins. in the ground, for
Cor. of secs. 25, 26, 35 and 36.
marked with 1 notch on
S. and E. edges:
from which

An aspen 3 ins. diam., bears
H. 9° 30' E., 14 lbs. dist. marked
T. 11 S. R. 2 C. S. 25, B. T.

An aspen, 3 ins. diam., bears S. 67° E.
26 lbs. dist. marked
T. 11 S. R. 2 C. S. 36. B. T.

An aspen, 2 ins. diam., bears S. 18° W.
19 lbs. dist. marked
T. 11 S. R. 2 C. S. 35, B. T.

An aspen, 2 ins. diam., bears
H. 81° 30' W., 8 lbs. dist.
marked T. 11 S. R. 2 C. S. 26, B. T.
This cor. is 800 ft. below
the sec. cor. on Tp. line.
Land mountainous.

Soil stony 3rd Rate.
Timber, open and fine.
Mountainous land 80.00 chs.

East on a random line
bet. secs. 25 and 36.

40.00 set - temp. 1/4 sec. cor.

80.00 intersect C. body. of Tp., at cor.
of secs. 25, 30, 31 and 36.
herebefore described.

Thence I run

West, on a true line,
bet. secs. 25 and 36.

Descend, through dense scrub
oak.

24.00 Ravine, 800 ft. deep, course H. W.
Ascend.

35.00 Top of ridge, bears H. W. and S. E.

Subdivision of T. 11 S. R. 1 E. Continued.

Chains	
40.00	Ascend. Set a Sandstone 15x10x6 ins. 10 ins. on - the ground, for 2 sec. Cor. marked & S. 25 m. N. 24° 36' on S. face. And raise a mound of stone, 2 ft. base, 12 ft. high ft. of cor.
57.00	Pits impracticable. Ravine, 600 ft. deep, and Spring branch 1 ft. wide, 2 ins. deep. Course H. H. Entire heavy aspen and Scattering fine timber bears H. H. and S. C. Ascend.
70.00	Top of ridge, bears H. H. and S. C. descend!
79.20	Spring branch, 1 ft. wide, 3 ins. deep. in ravine, 500 ft. deep. Course H. H. ascend.
80.00	The cor. of secs. 25, 26, 35 and 36. Land. mountainous. Soil. Stony ... 3 rd Rate. Timber, aspen and pine. Mountainous land. 80.00 chs. July 22: At this cor. I set off 20' 19' H. on the decl. arc: and at 0° 6' fr. m. l. m. - b. Observe the sun on - the meridians, the resulting lat. is 39° 49' 32" N.
2.00	H. 0° 1' H. bet. secs. 25 and 26. descend, through heavy aspen and scattering fine timber. Spring branch, 1 ft. wide, 2 ins. deep. in ravine, 500 ft. deep. Course H. H. Ascend.
35.00	Top of spur projects - H. H.

Subdivision of T. 11 S. R. 2 C. Cont.

Cham.	descend.
46.00	Set a red Sandstone 24x10x8 ins. 18 ins. in the ground, for t. sec. cor. marked $\frac{1}{4}$ S. 26 on W. and 35. on E. faces from which An aspen, 3 ins. diam. bears H. 34.9. 84 lbs. dist. marked $\frac{1}{4}$ S. 26.93. 9
	An aspen, 3 ins. diam. bears S. 15.5. 38 lbs. dist. marked $\frac{1}{4}$ S. 25. B. 9.
46.75	Ideo Creek, 3 mrs. wide, fine water 4 ins. deep and Canon 1000 ft. deep. Course H. C. Ascend.
52.00	Leave timber bears H.C. and S. 24. Enter dense oak and maple brush.
- 80.00	Set a red Sandstone 16x12x5 ins. 11 ins. in the ground for cor. of secs. 23, 24, 25 and 26. Marked with 2 notches on S. and 1 notch on E. edges and raise a mound of stone, 8 ft. base, 1 $\frac{1}{2}$ ft. high. $\frac{1}{4}$ of cor. Pits impracticable. Land mountainous. Soil stony. 3 $\frac{1}{2}$ ft. Rate. Timber! aspen and pine Mountainous land, 80.00 a cho.

Cast on a random line,
bet. secs. 24 and 25.

45.00 Set temp. $\frac{1}{4}$ sec. cor.
80.00 Intersect E. bds. of Th.
at cor. of secs. 19, 24, 25 and 30.
puncta fore described
Thence I run

Subdivision of T. 11 S. R. 2 C. Continued.

Chains	
	West, on a -time line, bet. secs. 24 and 25.
	Ascend, through heavy aspen timber.
1.25	Leave timber, bears H. and S. enter dense oak and maple brush.
28.30	Top of spur, 600 ft. high, projects S. W. Descend.
38.60	Top of red sandstone ledges bear H. and S. 200 ft. high. Mark a (X) on line, on top of ledges, for witness cor. to $\frac{1}{4}$ sec. cor., with $\frac{1}{4}$ S. 24, on H. & S. on S sides and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high. H. of cor.
	Pits impracticable.
	Discord.
40.00	Point for $\frac{1}{4}$ sec. cor. falls on face of ledges; impossible to set.
41.50	Foot of ledges, bear H. and S.
60.30	Hebo Creek, 14 lbs. wide, fine water, 6 ins. deep, in canon 1000 ft. deep. Course H. 10° E.
	Ascend.
60.45	Canon road, bears H. C. and S. W.
80.00	The cor. of secs. 23, 24, 25 and 26. Land mountainous.
	Soil, stony 3 rd and 4 th Rate. Timber, aspen.
	Mountainous land, 80 to 100 chs.
	July 22, 1901

July 23: At 7 A.M. I set off
39° 50' H. on the lat. arc: 20° W. H.
on the decl. arc: and determine
a time meridian, with the
solar, a¹ - the cor. of secs.

Subdivision of T. 11 S. R. 2 E. Continued

Chains

- 23, 24, 25 and 26.
Thence we run
 $W. 0^{\circ} 1' N.$ bet. secs. 23 and 24.
Over stony land, ascend through
dense oak and maple brush.
Top of high rocky spur,
projects E. descent.
Top of Sandstone ledges, 800 ft.
high, bear E. and W.
Begin abrupt descent.
Fork of Hebo Creek, 4 hrs. walk,
full water, 4 ins. deep, in
a narrow cañon, 1000 ft. deep.
Course E.
Begin steep ascent.
Set a Sandstone $15 \times 10 \times 5$ ins.
10 ins. in the ground, for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4} S. 23, 0^{\circ} W. 34$
on E. faces and raise a mound of
stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high,
fr. of cor.
Rds impracticable.
Top of high spur, projects S. E.
Descent.
Set a trachyte stone, $12 \times 12 \times 5$ ins.
8 ins. in the ground, for
cor. of secs. 13, 14, 23 and 24 marked
with 3 notches on S. and 1, on
E. edges:
from which
On aspen, 2 ins. diam., bears S. 46° E. 27
hrs. dist. marked T. 11 S. R. 2 E. S. 24. B. T.
On aspen, 2 ins. diam., bears S. 32° W. 34 hrs.
dist. marked T. 11 S. R. 2 E. S. 23. B. T.
No other bearing trees within limits.
And raise a mound of stone, 2 ft.
base, 1 $\frac{1}{2}$ ft. high, fr. of cor.
Rds impracticable.
Land mountainous
Soil stony, 3rd and 4th Rule.

Subdivision of T. 11 S. R. 2 E. Continued!

Chains	Timber. Aspen Mountainous land, 80.00 chs.
40.00	East, on a random line, bet. secs. 13 and 24. Set. temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect C. body. of Tp. At cor. of secs. 13, 18, 19 and 24. here before described. Thence S. 1° W.
	West, on a line line, bet. secs. 13 and 24.
5.00	Ascend, through dense oak. Top of ridge. bears N. W. and S. Descent.
18.00	Top of Sandstone ledge 400 ft. high, bear N.W. and S.E. Begin abrupt descent -
32.00	Fork of Hobo Creek, 10 lbs. wide, full water, 10 ins. deep, in narrow Cañon 1000 ft. deep Course S. E. Ascend. Enter heavy pine timber Bears N. W. and S. E.
40.00	Set a red sandstone 16.12 x 10 ins. 11 ins. in the ground, for $\frac{1}{4}$ "C. Cor. marked $\frac{1}{4}$ S. 13. on N. $\frac{1}{4}$ 24 on S face: from which
	Red pine, 10 ins. diam., bears N. 12° E. 18 lbs. dist. marked $\frac{1}{4}$ S. 13. 93. F.
	A pine, 8 ins. diam., bears S. 22 lbs. dist. marked $\frac{1}{4}$ S. 24. 13. F.
55.00	Leave pine timber. bears N. W. and S. E. enter scattering Aspen and dense oak brush.
80.00	The cor. of secs. 13, 14, 23 and 24. Land mountainous Soil slopes 3 rd and 4 th Rds.

DOVER, W. Va.

Subdivision of T. 11 S., R. 2 E. Continued

Chains

- Timber, aspen and pine.
 Mountainous land, 80.00 chs.
 July 23. At this cor. I set off
 $20^{\circ} 0' 0''$ It on the decl. arc: and
 at $0^{\circ} 6' 0''$ N. h. m. I observe
 the sun on the meridian,
 the resulting lat. is $39^{\circ} 51' 0''$
-
- 4.0° Dr. bet. secs. 13 and 14.
 Our rolling broken land,
 covered through dense oak,
 and scattering mahogany
 and aspen timber.
- 40.00 Set a Sandstone $16 \times 12 \times 5$ ins.
 11 ins. in the ground, for $\frac{1}{4}$ sec.
 Cor., marked $\frac{1}{4} \text{ B. M.}$ on W. and 13. on E. faces;
 raise a mound of stone, 2
 ft. base, 15 ft. high, N. of cor.
 Pits impracticable.
- 47.00 Fork of Hebo Creek, 5 hrs. wide,
 pure water, 8 ins. deep, and
 Canon 900 ft. deep, Course S. E.
 As wind.
- 80.00 Set a Sandstone $18 \times 10 \times 6$ ins. 12
 ins. in the ground, for cor. of
 secs. 11, 12, 13 and 14 marked with
 4 notches on the S. and 1
 notch on E. edges; and
 raise a mound of stone,
 2 ft. base, 15 ft. high, N. of cor.
 Pits impracticable.
 Land mountainous.
 Soil stony, 3rd Rate.
 Timber, f. aspen.
 Mountainous land, 80.00 chs.

Subdivision of T. 11 S. R. 2 E. Continued.

Chains

	Cast, on a random line, bet. secs. 12 and 13.
40.00	Set - temp. $\frac{1}{4}$ sec. cor.
80.00	Intersect C. body. of Tp. at Cor. of secs. 7, 12, 13 and 14. heretofore described. Then we run this 1- on a line line, bet. secs. 12 and 13.
12.00	Ascend, through dense oak, and scattering fine timber Top of ridge, bears N. and S. Leave scattering fine. descend.
31.00	Ravine, 600 ft. deep, Course S. Ascend.
40.00	Top of Spur projects S. Set a red sandstone 18x16x4 in. 12 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 12 on N. and 13 on S. faces. And raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high. If of Cor. pits impracticable. descend.
52.00	Ravine, 500 ft. deep, Course S. Ascend.
61.00	Top of spur, project S. descend.
80.00	The cor. of secs. 11, 12, 13 and 14. Land mountainous. Soil stony. $\frac{3}{4}$ Rate. Timber, fine. Mountainous land, 80.00 chs.

July 23, 1901

July 24; At 7 A.M. I set off
39° 52' N. on the lat. arc: 19° 58' W.
on the decl. arc: and determine
a true meridian with the
solar, at the cor. of secs.
11, 12, 13 and 14.

Subdivision of T. 11 S. R. & E. Continued

Chains

- Thence S. run
W. 0° 1' W. bet. Secs. 11 and 12.
Over rolling land, ascend
through dense oak.
21.50 Top of spur, 600 ft. above Cor.
projects Dr. descend.
40.00 Set a sandstone 20x12x6 ins.
15 ins. in the ground, for
 $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 11. on W. $\frac{3}{4}$ 12
on E. faces: from which
A pine, 3 ins. diam. bears S. 5° 30' E.
17 lbs. dist., marked $\frac{1}{4}$ S. 12. B. T.
A pine, 20 ins. diam., bears S. 21° W. 37 lbs.
dist., marked $\frac{1}{4}$ S. 11. B. T.
45.00 Shaw, 50 ft. deep, drains W. Ascend.
65.00 Top of Spur, projects Dr. descend.
70.20 Ravine, 300 ft. deep, Course S. W.
Ascend.
74.25 Enter scattering pine timber.
- 80.00 Set a red Sandstone 12x10x10 ins.
8 ins. in the ground, for Cor. of
Secs. 1, 2, 11 and 12. marked with
5 notches on the S. and 1 notch
on the E. edges: from which
A pine, 18 ins. diam., bears W. 10° E.
84 lbs. dist., marked
T. 11 S. R. & E. S. 1. B. T.
A pine, 8 ins. diam., bears S. 45° 30' E.,
39 lbs. dist., marked
T. 11 S. R. & E. S. 12. B. T.
A pine, 18 ins. diam., bears S. 48° W.
80 lbs. dist., marked
T. 11 S. R. & E. S. 11. B. T.
A pine, 18 ins. diam., bears W. 73° 45', 47
lbs. dist., marked
T. 11 S. R. & E. S. 2. B. T.
Land mountainous.
Soil stony 3rd Rate.
Timber, pine.
Mountainous land, 80.00 ac.

Subdivision of T. 11 S. R. & C. Continued.

Chains

- 1 East, on a random line,
bet. secs. 1 and 12.
Set temp. to sec. cor.
Intersect - C. body. of Tp.
At cor. of secs. 9, 6, 7 and 12.
herebefore described
Then I run
West, on a true line,
bet. secs. 1 and 12.
Our steep ascent, through
dense oak, maple, laurel
elder, Savis Berry and
Shrub aspen brush.
40.00 Set a Sandstone, $16 \times 12 \times 10$ ins.,
 11 ins. in the ground, for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ S. 1, on N. $\frac{3}{4}$ 12 on S. faces.
And raise a mound of stone,
2 ft. base, 1 ft. high. It. of cor.
Pits impracticable.
47.00 Top of ridge, 1000 ft. above
sec. cor. bears N. W. and S. E.
Descent.
61.00 Enter heavy pine, bears N. and S.
80.00 The cor. of secs. 1, 2, 11 and 12
Land mountainous.
Soil stony 3rd Rate.
Timber Aspen ^{and} pine.
Mountainous land. 80.00 obs.
July 24: At this cor. I set
off $19^{\circ} 55'$ It. on the decl.
Nec: And at 0 h. 6^m p. m.,
I m. - I observe the
sun on the meridian,
the resulting lat. is $39^{\circ} 53' U.$

Knowing I will not close
on the north bdy. of the
Tp. within the limits I run

Sub-division of T. 11 S. R. 2 E. Contin.

Chains

4. 0° 1' W.

bet. secs. 1 and 2.

Over rolling land, ascend
along the west slope of
high mountain ridge,
through heavy aspen and pine
timber.

32.00 Begin descent.

34.50 Ravine, 800 ft. deep. Course S.W.
Ascend.40.00 Set a Sandstone 12x10x6 ins. 8 ins.
in - the ground for 1 sec. cor.
marked $\frac{1}{4}$ S. E. on N. end. on C. faces:
from which

An aspen, 3 ins. diam. bears N. 32° E., 66 $\frac{1}{2}$
lks. dist., marked $\frac{1}{4}$ S. 1. B. T.

An aspen, 3 ins. diam. bears S. 81° 30' E. 24
lks. dist., marked $\frac{1}{4}$ S. 2. B. T.

- 55.85 Intersect 2nd Standard Parallel
South, 8. 10 chs. E. off standard $\frac{1}{4}$ sec. cor.
of sec. 36, T. 10 S., R. 2 E.

which is a sandstone 6x10x6 ins.
above - the ground, marked
and witnessed as described
by the Surveyor General.

Set a quartzite stone 12x10x8 ins.
8 ins. in - the ground, for Closing
Cor. of secs. 1 and 2, marked
C.C. on S. face, with 1 groove
on C. and 5 grooves on W. faces:
from which

A pine, 8 ins. diam. bears S. 25° W., 36 lks. dist.
marked T. 11 S. R. 2 E., S. 2. B. T.

An aspen, 6 ins. diam. bears S. 42° E., 15 lks. dist.
marked T. 11 S. R. 2 E., S. 1. B. T.

Land rolling.

Soil, sandy $\frac{3}{4}$ Rate.

Timber, aspen and pine.

Heavily timbered 55.85 chs.

July 24, 1901.

Subdivision of T. 11 S. R. 2 E. Continued

Chains

July 25. At 7 a.m. I set off
 $039^{\circ}49'$ W. on the lat. arc: $19^{\circ}46'31''$
 on the decl. arc: and determine
 a true meridian, with the
 solar, at the cor. of secs. 2, 3,
 34 and 35, on the S. bdy. of the
 Th. herebefore described.

Thence I run, $110^{\circ}17'$ bet. secos. 34 & 35.
 Ascend through scattering pine timber.

4:50 Top of spur, projects N. W.

Begin a steep descent.

25:50 Spring branch, 1 ft. wide,
 in ravine 500 ft. deep, course N. E.
 Enter heavy aspen, bears N. E. $\frac{1}{4}$ S. W.
 Ascend.

31:00 Leave aspen timber, bears E. and N.

40:00 Set a quartzite stone, $15 \times 12 \times 6$ ins.
 10 ins. in the ground, for 1/4 sec.
 Cor. marked $\frac{1}{4}$ S. 34, on N. $\frac{1}{4}$ 35. on E. faces:
 stone which

Pine, 4 ins. diam., bears $11^{\circ}25'30''$ N. 44
 Mts. dist., marked $\frac{1}{4}$ S. 34, N. E. T.

Pine, 4 ins. diam., bears $11^{\circ}30'$ E. 44 Mts.
 dist., marked $\frac{1}{4}$ S. 35, N. E. T.

On top of spur, projects E. descend.
 Leave pine timber, enter
 dense oak brush.

48:00 Ravine 100 ft. deep, course E.
 Ascend.

53:00 Top of ridge, bears E. and N. descend.

59:00 Head of ravine, course N. E.
 Ascend.

65:00 Top of ridge, bears N. E. and S. W.
 Descend.

71:00 Ravine, 200 ft. deep course N. E.
 Ascend.

80:00 Set a trachyte stone $14 \times 12 \times 8$ ins. 10
 ins. in the ground, for cor. of
 secs. 26, 27, 34 and 35; marked in the
 1 notch on S. and 2 on E. edges.

Subdivision of T. 11 S. R. 2 E. Cont.

Chains

- And raise a mound of stone, 2 ft.
base, 1 $\frac{1}{2}$ ft. high. N. of cor.
Vits impracticable.
Land mountainous.
Soil stony, 3 $\frac{1}{2}$ Rate.
Timber, aspen and pine.
Mountainous land, 8000 chs.
- East on a random line,
bet. secs. 26 and 35.
- 40.00 Set temp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect H. and S. line,
at cor. of secs. 25, 26, 35 and 36.
Thence I. run
West, on a true line,
bet. secs. 26 and 35.
- Ascend, through heavy aspen timber.
- 175 Leave timber, bears H. and S.
Enter heavy oak.
- 11.50 Top of spur, projects H. C. descend.
- 16.25 Ravine, 200 ft. deep, Course H. C.
Ascend.
- 22.00 Top of ridge, bears H. C. and S. W.
descend.
- 29.00 Shaw, 50 ft. deep course H. ascend.
- 35.85 Top of spur, projects H. descend.
- 40.00 Set a trachyte stone, 15x10x6 ins. 10
ins. in the ground, for $\frac{1}{2}$ sec.
Cor. marked $\frac{1}{4}$ S. 26. on H. 435. on S. face
from which
A pine, 5 ins. diam., bears S. 63° H. 44 lbs.
Dist. marked $\frac{1}{4}$ S. 35. B. T.
An aspen, 3 ins. diam., bears H. 35° 15' H. 60
lbs. dist. marked $\frac{1}{4}$ S. 26. B. T.
- 41.50 Spring branch, 1 ft. wide,
in ravine, 500 ft. deep, Course H. C.
Ascend.
- 55.00 Top of ridge, bears H. C. and S. W. descend.

Subdivision of T. 11 S. R. 2 E. Continued.

Chains

69.00 Ravine, 200 ft. deep, Course N. E.
Ascend.

80.00 The cor. of sec. 26, 27, 34 and 35.
Land - mountainous.

Soil, stony & rocky.

Timber, aspen and pine.

Mountainous land. 80.00 chs.
July 25: At this cor. I set off

$19^{\circ}42' H.$ on the decl. arc: and at
 $0^{\circ}6' 6''$ p. m. l.m.t. observe the
sun on the meridian. the
resulting lat. is $39^{\circ}49' 32'' N.$

$40^{\circ}1' W.$ - lot. secs. 26 and 27.

Begin steep descent, over
stony land, through dense
oak, service and Mahogany brush.

15.25 Hebo Creek. 4 ft. wide, pure
water, 4 ins. deep, in canon
1000 ft. deep, Course H. C.

Begin steep ascent.

Top of spur, looks S. E. descend.

Set a quartzite stone $14 \times 8 \times 6$ ins.
10 ins. in the ground, for cor.
Cor. marked 4.87 m. H. & 86. on B. faces:
And raise a mound of stone,
8 ft. base, 16 ft. high, Jr. of cor.
Walls impenetrable.

47.00 Draw, 50 ft. deep, Course S. E. Ascend.

68.20 Top of ridge, bears S. W. and H. E.

Descent, enter heavy aspen
timber, bears H. E. and S. W.

78.30 Ravine, 200 ft. deep, Course H. C.

Leave timber, bears H. W. and S. E.

Enter dense oak.

80.00 Set a sandstone $12 \times 10 \times 6$ ins.

8 ins. in the ground, for cor.
of secs. 22, 23, 26 and 27, marked

Subdivision of T. 11 S., R. 2 E. Continued

Chains

with 2 notches on S. and E. edges:
from which

On Oak, 3 ins. diam., bears $41.25^{\circ} 30' E.$
91 lks. dist. marked

T. 11 S., R. 2 E., S. 23, B. T.

On aspen, 10 ins. diam., bears
 $43.55^{\circ} E.$, 60 lks. dist. marked
T. 11 S., R. 2 E., S. 26, B. T.

On aspen, 5 ins. diam., bears
 $43.48^{\circ} W.$, 24 lks. dist. marked
T. 11 S., R. 2 E., S. 27, B. T.

On aspen, 4 ins. diam., bears $41.76^{\circ} W.$
53 $\frac{1}{2}$ lks. dist. marked
T. 11 S., R. 2 E., S. 22, B. T.

Land mountainous.

Soil stony 3rd Rate.

Timber aspen.

Mountainous land, 80.00 chs.

East, on a random line,

bet. secs. 23 and 26.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect H. and S. line, at cor.
of secs. 23, 24, 25 and 26.

Thence S. - mm

West, on a - line line,

bet. secs. 23 and 26.

Cover stony land, ascend through
dense oak and maple bush.

38.00 Top of spui, projects S. descend.

40.00 Set a Sandstone, 15x10x6 ins. 10
ins. in the ground, for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ S. 23, on $\frac{1}{4}$ S. 26, on S. face;
and raise a mound of stone,
2 ft. base, 1 $\frac{1}{2}$ ft. high, H. of cor.
This impracticable.

50.00 Begin ascent.

58.00 Top of ridge, bears N. E. and S. W.

BOOK A-201

Subdivision of T. 11 S. R. 2 E. Continued.

Chains

	Enter heavy aspen-timber, bears N. E. and S. W. descend.
76.50	Ravine, 200 ft. deep, Course H. C. ascend.
80.00	The cor. of secs. 22, 23, 26 and 27. Land mountainous. Soil sandy 3rd Rate. Timber, aspen. Mountainous land. 80.00 chs.
	July 25, 1901.

July 26: At 7 A.M. I set off 39° 50' H. on the lat. inc.: 19° 33' H. on the decl. inc: and determine a true meridian with the solar, at the cor. of secs. 22, 23, 26 and 27.

Then ce. d. sun

H. 0° 1' W. bet. secs. 22 and 23.

Ascend through dense oak.

Top of spur projects E. descend.

Enter heavy aspen and scattering pine timber, bears E. and W.

Begin steep descent.

Fork of Hobo Creek, 3 hrs. wide, pine water, 4 ins. deep, in canon 600 ft. deep. Course E. Ascend.

Leave timber, bears E. and W.

Enter dense oak.

Enter heavy aspen and scattering pine timber, bears E. and W.

Top of spur, projects H. E. descend.

Spring branch, 2 hrs. wide, 4 ins. deep, in ravine, 300 ft. deep. Course S. E. ascend.

Set a trachyte stone, 18, 8 1/4 ins.

12 ins. in the ground, for 1/2 sec. Cor. marked 1/2 S. 22.00 W. 23.00 E. faces:

Subdivision of T. 11 S. R. 2 E. Continued

Chains	
	from which A pine, 6 ins. diam., bears East, 18 lbs. dist. marked $\frac{1}{4}$ S. 23. B. T.
	An aspen, 2 ins. diam., bears N. 5° 30' W. 42 lbs. dist. marked $\frac{1}{4}$ S. 22. B. T.
45.00	Top of rocky ridge, bears N. 44. $\frac{1}{2}$ S. E. old and!
52.00	Ravine, 300 ft. deep, Course S. E. Begin steep ascent.
55.00	Leave timber, bears E. and W.
63.00	Enter heavy aspen-timber, bears E. and W.
- 80.00	Set a sandstone 18.8 x 6 ins. 12 ins. in the ground, for cor. of secs. 14, 15, 22 and 23 marked with 3 notches on the S. and 2 notches on the E. edges: from which An aspen, 5 ins. diam., bears N. 55° 30' E., 8 lbs. dist. marked T. 11 S. R. 2 E., S. 14. B. T.
	An aspen, 3 ins. diam., bears S. 36° E. 18 lbs. dist. marked T. 11 S. R. 2 E., S. 23. B. T.
	An aspen, 4 ins. diam., bears S. 67° W. 16 lbs. dist. marked T. 11 S. R. 2 E., S. 22. B. T.
	An aspen, 3 ins. diam., bears N. 45° W., 26 lbs. dist. marked T. 11 S. R. 2 E., S. 15. B. T.
	Land - mountainous. Soil, stony, 3 rd Rate. Timber, aspen and pine. Mountainous land. 80.00 chs.

East, on a random line,
bet. secs. 14 ^{and} 23.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

Subdivision of T. 11 S., R. 2 E. Continued

Chains

80.00

Intersect H. and S. line.

At cor. of secs. 13, 14, 23 and 24.

Then I run

West, on a true line,

bet. secs. 14 and 23.

Ascend, through dense oak.

maple and choke cherry bush.

Top of ridge, bears H. W. and S. E.

descend.

19.00

Ravine, 200 ft. deep. Course S. E.

40.00

Set a quartzite stone, 14 x 12 x 4 ins.

10 ins. in the ground for $\frac{1}{4}$ sec.

Cor. marked $\frac{1}{4}$ S. 14.01 N. 1.48 E. Bond face:

from which

An aspen, 8 ins. diam., bears S. 88° 30' E.

1.34 chs. dist., marked $\frac{1}{4}$ S. 23. 13. T.

A pine, 10 ins. diam., bears H. 18° W.; 67

ths. dist., marked $\frac{1}{4}$ S. 14, 13. T.

45.20

Top of ridge, bears H. and S.

Descend, enter heavy aspen timber, bears H. and S.

50.50

Ravine, 150 ft. deep. Course S.

Ascend.

68.20

Top of ridge, 1000 ft. above cor.

of secs. 13, 14, 23 and 24., bears

H. W. and S. E. descend.

80.00

The cor. of secs. 14, 15, 22 and 23.

Land mountainous

Soil stony. 3rd Rate.

Timber, aspen and pine.

Mountainous land, 80.00 chs.

July 26: At this cor. I set off

99° 29' H. on the decl. arc.

And at 0° 6' p. m. 1. m. I

observe the sun on the meridian, - the resulting

lat. is 39° 51' H.

Subdivision of T. 11 S. R. 2 E. Continued

Chains

- 20.00 Set a stone 14 x 12 x 10 ins.
Ascend through heavy aspen
and scattering pine timber.
- 31.00 Top of ridge, bears E. and W.
Descend over broken land,
along the east slope of the
Twin Knolls
- 40.00 Set a sandstone 14 x 12 x 10 ins.
10 ins. in the ground, for $\frac{1}{4}$
sec. cor. marked $\frac{1}{4}$ S. 15, on N. 4/4
on C. faces; from which
in aspen, 6 ins. diam., bears
H. 26° E., 8 lbs. dist. marked $\frac{1}{4}$ S. 14. 93. 9.
An aspen, 6 ins. diam., bears S. 70° W.
11 lbs. dist. marked $\frac{1}{4}$ S. 15. B. T.
- 80.00 In patch of burnt timber.
Set a sandstone 14 x 12 x 10 ins. 10
ins. in the ground, for cor.
of secs. 10, 11, 14 and 15. marked
with 4 notches on the S. and
2 notches on the C. edges:
And raise a mound of stone,
2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.
Pits impracticable.
Land mountainous.
Soil stony 3rd Rate.
Timber aspen and pine.
Mountainous land, 80.00 chs.

Cast. on a random line,
bet. secs. 11 and 14.

40.00 Set temp. $\frac{1}{4}$ sec. cor.

80.00 Intersect H. and S. line,

at cor. of secs. 11, 12, 13 and 14.

Distance 3 mm

Cast. on a true line,

bet. secs. 11 and 14

Descend, through dense oak.

Subdivision of T. 11 S. R. 2 E. Continued.

Chains

12.00

Tork of Ilabo Creek. 5 Mrs. much
fine water, 10 ins. deep, in
Canyon 1000 ft. deep, course
S. E.

Descent 1. over broken land,
through scattering young
aspen and dead and fallen
pine.

40.00

Set a sandstone 15x10x6 ins., 10
ins. in the ground, for 2'
sec. cor. marked at sec. 11, 11, 14
on S. face and have a mound
of stone. 3 ft. base, 15 ft.
high, Jr. of cor.

Pits impracticable.

The cor. of sec. 10, 11, 14 and 15.
1000 ft. above bottom of
canyon.

Land uneven timberous.

Soil strong & Rule.
Timber aspen fine.

Worn timberous road, \$0.00 chs.

July 26, 1901

July 27: At 7 A. M. I set
off 39° 58' N. on the lat. acc:
49° 19' N. on the decl. acc: And
determine a true meridian
with the solar. At the cor.
of secs. 10, 11, 14 and 15.

Thence I run

St. 0' 1' Jr. bet. secs. 10 and 11.

Over broken land. Descend
through heavy aspen and
scattering pine timber.

31.00

32.00

40.00

Subdivision of T. 11 S. R. 2 C. Continued

Chains

marked $\frac{1}{4}$ S. 10, on N. $\frac{1}{4}$ 11. on E. faces:
from which
An aspen, 5 ins. diam., bears H. 12° W.
14 lbs. dist., marked $\frac{1}{4}$ S. 10, B. T.
An aspen, 4 ins. diam., bears H. 43° E., 16
lbs. dist., marked $\frac{1}{4}$ S. 11, B. T.
Shallow, 100 ft. deep, coarse E.
Ascent.
80.00 Set a sandstone 16 x 10 x 4 ins., 11
ins. in the ground, for cor. of
secs. 8, 3, 10 and 11, marked 5 notches on
the S. and 2 notches on E. edges:
from which
An aspen, 3 ins. diam., bears H. 30° E.
 $\frac{1}{2}$ lbs. dist., marked
T. 11 S. H. 2 E. S. 2. B. T.
An aspen, 5 ins. diam., bears S. 31° E.
33 lbs. dist., marked
T. 11 S. H. 2 E., S. 11 B. T.
An aspen, 4 ins. diam., bears S. 15° 30' W.
19 lbs. dist., marked
T. 11 S., H. 2 E., S. 10. B. T.
An aspen, 5 ins. diam., bears
H. 38° W., 12 lbs. dist., marked
T. 11 S., H. 2 E., S. 3. B. T.
Land mountainous.
Soil stony 3rd Rate.
Timber, aspen and pine.
Mountainous land. 80.00 lbs.

East, on a random line,
bet. Secs. 8 and 11.

40.00 Set temp. 4 sec. cor.

80.00 Interest H. and S. lines
at cor. of secs. 12, 11 and 12

West, on a line line,
bet. secs. 2 and 11.

Subdivision of T. 11 S., R. 2 E., Continued.

Chains	
	Descend, - through dense oak and scattering pine-timber.
6.25	Ravine, 300 ft. deep. Course S. Ascend
8.90	Top of spur, projects S. descend.
12.00	Ravine, 500 ft. deep. Course S. Ascend.
24.80	Top of spur, projects S. descend.
37.25	Ravine, 500 ft. deep. Course S. W. Ascend.
40.00	Set a red Sandstone 18x8x6 ins. 12 ins. in - the ground. for $\frac{1}{4}$ sec. Cor., marked $\frac{1}{4}$ S. S. on N. $\frac{1}{4}$ N. on S. faces: from which An oak, 5 ins. diam., bears H. $17^{\circ} 30'$, 24 lbs. dist. marked $\frac{1}{4}$ S. 11, N. T. An oak, 5 ins. diam., bears H. $60^{\circ} E.$ 18 lbs. Dist. marked $\frac{1}{4}$ S. 2. N. T.
43.50	Top of spur, projects S. E. Descend.
50.70	Leave timber, bears H. H. and S. E. Fork of Hebo Creek, 1 ft. wide, 2 ins. deep, in Canon 900 ft. deep, Course S. E. ascend.
60.00	Enter scattering pine timber. Enter heavy aspen and pine timber bears H. and S.
80.00	The cor. of secs. 2, 3, 10 and 11. Land - snowm. timber.
	Soil, stony 3 rd Rate. Timber, f aspen and pine. Mountainous land. 80.00 chs. July 27: At this cor. I set off $19^{\circ} 16' H.$ on the decl. arc: and at 0 ^h 6 ^m p. m. I. on t. observe the sun on the meridian, the resulting lat. is $39^{\circ} 53' H.$

DRAFT

Subdivision of T. 11 S. R. 2 E. Continued

Chains

Knowing the line bet. secs. 2nd & 3.
will not close within limits,
on the 2nd Standard Parallel South
From

H. 0° 1' W.

Bet. secs. 2nd & 3.

Cross an even slope, descend
through heavy aspen and
pine timber.

40.00 Set a trachyte stone 14x10x6 ins.
10 ins. in the ground, for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ S. 3. on N. $\frac{3}{4}$ S. on C. faces.
from which
Cir aspen, 12 ins. diam., bears
H. 67° 30' W. 11 mks. dist. marked
 $\frac{1}{4}$ S. 3. 93. T.

On aspen, 4 ins. diam., bears S. 60° 30' E.
2 mks. dist. marked $\frac{1}{4}$ S. 2. 93. T.

46.50 Fork of Hebo Creek, 1 m. wide,
2 ins. dep. in Cañon 800 ft. dep.
Course S. E. Descend.

Leave heavy timber bears H. W. and
S. E. Enter scattering aspen
and pine; and dense undergrowth.

- 55.85 Intersect 2nd Standard Parallel
South, 8.20 chs. E. of Standard $\frac{1}{4}$ sec.
Cor of sec. 35. T. 10 S. R. 2 E.
which is a sandstone, 6x8x6 ins.
above the ground, marked and
evidenced as described by
the Surveyor general.

Set a quartzite stone 12x12x8 ins.
8 ins. in the ground, for
Closing cor. of secs. 2nd & 3, marked
C.C. on S. face, with 2 grooves
on C. and 4 grooves on N. faces;
And raise a mound of
stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high
S. of cor.

Pits impracticable.

Subdivision of T. 11 S. R. 2 C. Continued

Chains

This closing cor. is on a spur
projecting S.

Land stony talus.

Soil stony 3rd Rate.

Timber, aspen and pine.

Mountainous land, 55-85 chs.

July 27, 1905.

July 28: At 7 A.M., I. M. I.
Set off 39° 49' H. on the lat.
arc: 19° 6' H. on the decl. arc:
and determine a true
meridian, at the cor. of secs. 3,
4, 33 and 34, on the S. bdy of
the Tp. heretofore described.
Thence I run

H. 0° 2' H. bet. secs. 33 and 34.

Over rolling land, ascend
through heavy aspen timber.

24.00 Head of ravine, coarse S. H.

37.50 Top of ridge, bears H. H. and S. E.
descend,

Leave heavy timber, bears H. H. and
S. E. enter dense undergrowth,
and scattering fine aspen
timber.

40.00 Set a red sandstone 15x12x6 ins.
10 ins. in the ground, for
sec. cor. unmarked & S. 33.00 H. 43° 4'
on B. faces from which

A fine, 16 ins. diam., bears H. 56° W.
52 lbs. dist. marked to S. 33. 13. T.

An aspen, 3 ins. diam., bears H. 44° E. 55
lbs. dist. marked to S. 34. 13. T.

44.50 Ravine, 400 ft. deep, coarse C.
ascend.

Top of ridge, bears H. C. and S. W.
descend.

80.00 Set a quartzite stone, 14x10x8 ins.

Subdivision of T. 11 S. R. 2 C. Continned

Chains

10 ins. in the ground, for Cor. of secs. 27, 28, 33 and 34, marked with 1 notch on the S. and 3 notches on the E. edges, from which

An aspen, 3 ins. diam. bears S. $42^{\circ} 30' E.$
83 lbs. dist. marked

T. 11 S., R. 2 C. S. 34. B. T.

An aspen, 4 ins. diam. bears S. $52^{\circ} W.$
41 lbs. dist. marked

T. 11 S., R. 2 C. S. 33. B. T.

No other trees within limits.

And raise a mound of stone, 8 ft. base, 1 $\frac{1}{2}$ ft. high, Jr. of Cor.

Ridge impracticable.

Land mountainous

Soil. Stony 3rd Rate.

Timber aspen and pine.

Mountainous land, 80.00 chs.

East, on a random line,
bet. secs. 27 and 34,

40.00 Set tempo. $\frac{1}{4}$ sec. cor.

80.00 Intersect N. and S. line,

At cor. of secs. 26, 27, 34 and 35.

Thence I run

West, on a true line,

bet. secs. 27 and 34.

Ascend, through dense oak, laurel and maple brush.

Top of spur, projects N. E. descend.

Havine, 500 ft. dep., course N. E.

Ascend.

40.00 Set a red sandstone 24 x 6 x 4 ins.

18 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. & N. on N. $\frac{1}{4}$ 34.00

The S. faces. And raise a

Subdivision of T. 11 S. R. 2 E. Continued.

Chains	
	rounded of stone, 2 ft. base, 1 1/2 ft. high. H. of cor. Pits impracticable.
44.65	Top of spur, projects H. C. descend.
50.00	Begin ascent.
68.50	Top of spur, projects H. C. Enter scattering aspen and pine timber
80.00	The cor. of secs. 27, 28, 33 and 34. 800 ft. above the cor. of secs. 26, 27, 34 and 35. Land mountainous. Soil stony 3 rd Rate. Timber, aspen and pine. Mountainous land, 80.00 chs.
	July 28: At this cor. I set off 19° 2' N. on the decl. arc: and at 1 h. 6 m. P. M., l. m. I. observe the sun on the meridian, the resulting lat. is 39° 49' 32" N

	H. o. 2 W. bet. secs. 27 ^{and} 28. Descend, through dense oak and elderberry, and scattering aspen and pine-timber.
32.00	Hebo Creek, 6 lks. wide, pure water, 4 ins. deep, in canon 1000 ft. deep, course S. 75° E. Enter heavy aspen-timber, bears E. ^{and} W.
	Ascend, over broken land. Set a trachyte-stone, 18 x 7 x 4 ins. 12 ins. in the ground, for 1/4 sec. Cor., marked $\frac{1}{4}$ S. 28° W. H. $\frac{1}{4}$ S. 27° E.
40.00	faces from which An aspen, 4 ins. diam. bears H. 34° 30' E. 9 lks. dist., marked $\frac{1}{4}$ S. 27° 12' E.

DRAFT NO. 2

Submission of T. 11 S. R. & C. Continue

Chains

	dist. marked 4 S. 28, B. T.
52.00	Top of ridge, bears E. and W. descend.
74.50	Fork of Hebo Creek; 1 lk. wide, 2 ins. deep, in ravine 300 ft. deep. Course E. Ascend.
- 80.00	Set a trachyte stone 16x8x8 ins. 11 ins. in the ground, for Cor. of secs. 21, 22, 23 and 28, marked with 2 notches on the S. and 3 notches on the E. edges: from which. An aspen, 5 ins. diam., bears S. 20° E., 12 lks. dist. marked T. 11 S. R. & C. S. 27, B. T.
	An aspen, 3 ins. diam., bears S. 78° W., 10 lks. dist. marked T. 11 S. R. & C. S. 28, B. T.
	An aspen, 6 ins. diam., bears H. 68° W., 20 lks. dist. marked T. 11 S. R. & C. S. 21, B. T.
	No other trees within limits. And raise a mound of stone 2 ft. base, 1 1/2 ft. high, W. of cor.
	Pits impracticable. Land mountainous. Soil stony 3 rd Rate. Timber, aspen and pine. Mountainous land. 80.00 chs.

	East, on a random line, bet. secs. 22 and 27.
40.00	Set temp. 1/4 sec. cor.
80.00	Intersect H. and S. line, at cor. of secs. 22 23 26 and 27. Thence I run

20

Subdivision of T. 11 S. R. 2 E. Continued.

Chains	
	West, on a fine line. bet secs. 22 and 27.
6.00	Enter rolling land, ascend through heavy aspen timber. Leave timber & bears N. and S.
40.00	Enter dense scrub oak. Set a trachyte stone, 15x10x6 ins. 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. 22 on N. & S. on S. faces: and raise a mound of stone, 2 ft. base, 1 $\frac{1}{2}$ ft. high, H. of cor.
42.25	Very impracticable. Top of rocky spur, projects H. described.
	Enter heavy pine-timber, bears E. and W.
49.00	Fork of Hebo Creek, 1 lk. wide, 2 ins. deep, in ravine 800 ft. deep. Course H. C. Ascend. Leave pine-timber bears H. C. and S. W. enter heavy aspen -timber.
72.90	Top of spur, projects S. E. Descend, leave aspen timber bears S. E. and H. W. Enter dense oak.
80.00	The cor. of secs. 21, 22, 27 and 28. Land mountainous. Soil stony , 3 rd and 4 th Rate. Timber, scrub open and pine. Mountainous land, 80.00 chs.

July 28, 1901.

July 29: At 7 A. M., I set
off $39^{\circ} 50'$ H. on the lat. arc;
 $18^{\circ} 51'$ H. on the decl. arc;
and determine a true
meridian with the solar

Subdivision of T. 11 S., R. 2 E. Continue

Chains

- At the cor. of secs. 21, 22, 27 and 28.
 Thence I run
 H. o. l. N. bet. secs. 21 and 22.
 Over rolling land, ascend
 through heavy aspen timber
~~Set a trachyte stone, 18x12x6 ins.~~
~~12 ins. in the ground, for cor.~~
~~sec. cor., marked $\frac{1}{4}$ S. 21, on W.~~
~~and $\frac{1}{4}$ on C. faces:~~
~~from which~~
~~An aspen, 12 ins. diam. bears W.~~
~~4 lks. dist., marked $\frac{1}{4}$ S. 21, B. T.~~
~~An aspen, 10 ins. diam., bears H. 30° C.~~
~~5 lks. dist., marked $\frac{1}{4}$ S. 22, B. T.~~
~~Set a granite stone, 30x24x24 ins.~~
~~23 ins. in the ground, for cor.~~
~~of secs. 15, 16, 21 and 22, marked~~
~~T. 11 S., S. 15 on H. C.,~~
~~H. h C., S. 22, on S. C.,~~
~~S. 21 on S. W. and~~
~~S. 16, on H. W. faces: with 3 notches~~
~~on S. and C. edges:~~
~~from which~~
~~An aspen, 15 ins. diam., bears H. 43° C., 28~~
~~lks. dist., marked T. 11 S., H. 2 C., S. 15, B. T.~~
~~An aspen, 15 ins. diam., bears S. 86° C., 22 lks.~~
~~dist., marked T. 11 S., H. 2 C., S. 22, B. T.~~
~~An aspen, 15 ins. diam., bears S. 22 H., 24 lks.~~
~~dist., marked T. 11 S., H. 2 C., S. 21, B. T.~~
~~An aspen, 10 ins. diam., bears H. 28 H., 53 lks.~~
~~dist., marked T. 11 S., H. 2 C., S. 16, B. T.~~
~~This cor. is 1200 ft. above the~~
~~cor. of secs. 21, 22, 27 and 28.~~
~~Land mountainous.~~
~~Soil stony 3rd Rate.~~
~~Timber aspen.~~
~~Mountainous land, 80.00 lks.~~

Subdivision of T. 11 S. R. 2 C. Continued.

Chains

- East on a random line.
bet. secs. 10 and 22.
Set - temp. $\frac{1}{4}$ sec. cor.
Intersect N. and S. line, 18 ft. W.
of the cor. of secs. 14, 15, 21 and 23.
Hence I run
 $24.89^{\circ} 52' W.$ on a true line,
bet. secs. 15 and 22.
Descend through heavy aspen
timber.
Down, 50 ft. deep. Course S.
Ascend.
Top of spur, projects. S. descend.
Ravine, 200 ft. deep, Course S. E.
Ascend over broken land.
Set a Sandstone 15x10x6 ins. 10
ins. in the ground, for $\frac{1}{4}$ sec.
Cor. marked $\frac{1}{4}$ S. 15. 00 H. $\frac{1}{4}$ S. 8. 00 S. faces:
from which
An aspen, 3 ins. diam. bears $91.12^{\circ} E.$
11 lbs. dist. marked $\frac{1}{4}$ S. 15. 13. T.
An aspen, 4 ins. diam., bears $S. 22^{\circ} E. 14$
lbs. dist. marked $\frac{1}{4}$ S. 2. 2. 13. T.
The cor. of secs. 15, 16, 21 and 22.
800 ft. above the cor. of secs.
14, 15, 22 and 23.
Land mountainous.
Soil stony 3rd Rate.
Timber, aspen.
Mountainous land, 8000 chs.
July 29: At this Cor. we set
off $18^{\circ} 48' H.$ on the decl. acc.
And at 0^h. 6^m. p. m. l. m. it
observes the sun on the
meridian - the resulting
lat. is $39^{\circ} 51' H.$

Subdivision of T. 11, S. R. & C. Continued.

Chains

- 11.0' N. lat. secs. 15^{and} 16.
Ascend through heavy aspen timber
Top of divide, between Hebo
and Santquin Canons. bears
H. E. and S. W., 300 ft. above sec. cor. descend.
40.00 Set a quartzite stone 16 x 10 x 8 ins.
11 ins. in the ground, for 4 sec.
Cor. marked $\frac{1}{4}$ S. 16. on W. and 15. on E. faces:
from which.
An aspen, 12 ins. diam. bears H. 16 N.
37 lks. dist. marked $\frac{1}{4}$ S. 16 N. T.
An aspen, 10 ins. diam. bears S. 53° 30' E. 16
lks. dist. marked $\frac{1}{4}$ S. 15, B. T.
69.15 Fork of Santquin Creek (now dry)
in Canon, 800 ft. deep.
Course H. N. ascend.
- 80.00 Top of spm. projects H. W.
Set a sandstone 15 x 8 x 8 ins. 10
ins. in the ground, for cor. of
secs. 9, 10, 15^{and} 16. marked with
4 notches on the S. and 3 notches
on the E. edges:
from which.
An aspen, 6 ins. diam. bears H. 7 E.
17 lks. dist. marked
T. 11 S. R. & C. S. 10. B. T.
An aspen, 5 ins. diam. bears S. 48° E.
12 lks. dist. marked
T. 11 S. R. & C. S. 15. B. T.
An aspen, 4 ins. diam. bears
S. 4° 30' N., 18 lks. dist. marked
T. 11 S. R. & C. S. 16. B. T.
An aspen, 5 ins. diam. bears
H. 8° 30' N. 24 lks. dist. marked
T. 11 S. R. & C. S. 9. B. T.
Land mountainous.
Soil stony 3rd Rate.
Timber aspen.
Mountainous land. 80.00 chs.

Subdivision of T. 11 S. R. & E. Continued.

Cham.

- S. 89° 52' E. on a random line.
bet. secs. 10 and 15.
- 40.00 Set comp. $\frac{1}{4}$ sec. cor.
- 80.00 Intersect H. and S. line. 19 lbs.
S. of the Cor. of secs. 10, 11, 14 and 15.
Thence S. run.
West. on a true line,
bet. secs. 10 and 15.
- Climb, through heavy aspen
and scattering pine timber.
- 34.50 Top of divide, between Ilabo
and Santquin Canons. bears
H. W. and S. E., 800 ft. above sec cor. descend
to high bare knoll, the north
knoll of the Twin Knolls.
Bears S. 3 chs. dist.
- 40.00 Set a trachyte stone, 14x8x6 ins.
10 ins. in the ground, for $\frac{1}{4}$
sec. cor., marked $\frac{1}{4}$ S. 10 on H.
 $\frac{1}{4}$ 15. on S. faces
from which
An aspen, 15 ins. diam. bears S. 35°
30' E., 6 lbs. dist. marked $\frac{1}{4}$ S. 15, B. F.
An aspen, 18 ins. diam. bears H. 46° 30' N.
17 lbs. dist. marked $\frac{1}{4}$ S. 10 B. F.
- 62.00 Fork of Santquin Creek (now dry)
in Canon. 800 ft. deep.
Course H. W. ascend.
- 80.00 The cor. of secs. 9, 10, 15 and 16.
Land mountainous.
Soil stony 3rd Rate.
Timber aspen and pine.
Mountainous land. 800 chs.
- July 29, 1901

July 30. At 7 A.M. I set off
39° 52' H. on the lat. arc 18° 28' H. on
the decl. arc and determine a
true meridian with the solar,

Sub-division of T. 11 S. R. & C. continued.

Chains

- At the cor. of secs. 9, 10, 15 and 16.
Thence I run
N. 0° E. W. bet. secs. 9 and 10.
Descend through heavy aspen timber -
4.50 Fork of Santquin Creek (now dry)
in Cañon 800 ft. deep. Course
N. W. ascend.
38.00 Top of spur, projects N. descend
40.00 Set a limestone 12x10x5 ins. 8 ins. in
the ground, for 1/2 sec. cor., marked 51.
9 in N. and 10.00 C. faces from which
an aspen, 3 ins. diam., bears S. 37° 30' E.
37 lbs. dist. marked 1/2 S. 10. 93. T.
An aspen, 6 ins. diam., bears S. 42° N. 7 lbs.
dist. marked 1/2 S. 9. 93. T.
49.80 Ravine, 200 ft. deep, Course N.
Ascend.
Leave aspen timber, bears E. and N.
enter scattering pine.
64.00 Top of ridge, bears E. and N.
descend.
72.00 Ravine, 100 ft. deep, Course N.
Ascend.
79.00 Enter heavy aspen, bears E. and N.
80.00 Set a sandstone 15x12x6 ins. 10
ins. in the ground, for cor.
of secs. 3, 4, 9 and 10, marked with
5 notches on the S. and 3
notches on the E. edges:
from which
an aspen, 5 ins. diam., bears N. 73° E.
41 lbs. dist. marked
T. 11 S. R. & C. S. 3. 93. T.
An aspen, 12 ins. diam., bears
S. 37° E., 27 lbs. dist. marked
T. 11 S. R. & C. S. 10. 93. T.
An aspen, 2 ins. diam., bears S. 14° N.
15 lbs. dist. marked
T. 11 S. R. & C. S. 9. 93. T.
An aspen, 5 ins. diam., bears N. 7° N.

Subscription of F. W. Macmillan

Subdivision of T. U. S. R. & C. Continued.

Chains	
	<p>Land mountainous Soil stony $\frac{3}{4}$ ft. Rate. Timber aspen and pine. Mountainous land. 8000 chs. July 30: At this cor. I set off 18$\frac{3}{4}$' N. on the decl. and at 0° 6' f. sec. l. m. I observe the sun on the meridian, the resulting lat. is 39° 53'</p>
	<p>18.00' N. on true line bet. secs. 3 and 4. Ascend through heavy aspen, along the west slope of a high mountain ridge, bearing N. $\frac{3}{4}$ S.</p>
19.00	Leave timber, bears E. and W. Enter dense brush and bracke.
23.70	Top of red Sandstone ledges, bear E. and W. 40 ft. high.
26.00	Enter heavy aspen timber, bears E. & W.
40.00	Set a Sandstone 14x12x10 ins. 10 ins. in the ground. for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 4, on N. $\frac{3}{4}$ S. on E. faces: from which
	An aspen. 12 ins. diam., bears S. 44° 30' W. 10 lbs. dist. marked $\frac{1}{4}$ S. 4, N. 3. T.
	An aspen, 5 ins. diam. bears S. 1° E., 15 lbs. dist. marked $\frac{1}{4}$ S. 3. N. T.
42.00	Top of spur, 500 ft. above sec. cor. project to W. described.
- 55.85	Intersect. 2 nd Standard Parallel South, 8.30 chs. E. of the Standard $\frac{1}{4}$ sec. cor. of sec. 34, T. 10 S. R. & C. which is a sandstone 6x10x8 ins. above the ground, marked and witnessed as described

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# Subdivision of T. 11 S. R. 2 C. Continued

Chains

by the Surveyor General.  
 Set a Sandstone  $14 \times 12 \times 10$  ins.  
 10 ins. in the ground, for  
 Closing cor. of secs. 3 and 4,  
 marked C. C. on S. face,  
 with 3 grooves on E. and W.  
 faces; from which  
 An aspen, 8 ins. diam., bears  
 $529^{\circ} 30' N.$ , 68 lbs. dist. marked  
 T. 11 S. R. 2 C. S. 4, B. T.  
 An aspen, 8 ins. diam., bears  
 $561^{\circ} E.$ , 13 lbs. dist. marked  
 T. 11 S. R. 2 C. S. 3, B. T.  
 Land, mountainous.  
 Soil stony 3<sup>rd</sup> Rate.  
 Timber aspen.  
 Mountainous land, 55.85 chs.

July 30. 1901

July 31: cut 7 a. m., l. m. - b. d.  
 Set off  $39^{\circ} 49'$  lt. on the lat.:  
 arc:  $18^{\circ} 23'$  lt. on the decl. arc:  
 and determine a true  
 meridian, with the solar,  
 on the S. bdy. of the sp. at  
 the cor. of Secs. 4, 5, 33. <sup>and</sup> 32.  
 here tofore described.

Thence I run

$11.0^{\circ} 3' W.$  bet. Secs. 32 <sup>and</sup> 33.

Ascend through dense oak  
 timber and scattering  
 aspen timber.

3.50

Top of spm. projects S. W.

Descend over broken land.

40.00

Set a Shale Stone  $15 \times 10 \times 4$  ins. 10 ins.  
 in the ground, for  $\frac{1}{4}$  sec. cor.,  
 marked  $\frac{1}{4}$  S. 33, on N. <sup>and</sup> S. W. E. faces;  
 from which

an aspen 4 ins. di. ... 100 ft. D. 18'.

Submission of T. 11 S. R. 2 E. Continue

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains  | 27 lbs. dist., marked $\frac{1}{4}$ S. 32. 93. T.<br>An aspen, 4 ins. diam., bears S. 51° E.<br>43 lbs. dist., marked $\frac{1}{4}$ S. 33. 93. T.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 42.90   | Spring branch, 1 lb. wide,<br>in ravine 300 ft. deep. Course<br>S. Ir. ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 49.00   | Top of spur, projects S. Ir.<br>descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 62.60   | East fork of Salt Creek, 3 lbs.<br>wide, pink water, 3 ins. deep,<br>in canon, 800 ft. deep.<br>Course S. 20° Ir. ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 76.70   | Enter heavy aspen. timber bears<br>C. and Ir. f.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| - 80.00 | Set a rectangular stone, 20x15x6 ins.<br>15 ins. in the ground. for cor. of<br>secs. 28, 29, 32 and 33. marked<br>with 1 notch on the S. and<br>4 notches on the E. edges:<br>from which<br>An aspen, 5 ins. diam. bears H. 45° 30' C., 12 lbs.<br>dist. marked T. 11 S. R. 2 E. S. 28. 93. T.<br>An aspen, 5 ins. diam. bears S. 48° C. 12 lbs.<br>dist. marked T. 11 S. R. 2 E. S. 33. 93. T.<br>An aspen, 6 ins. diam. bears S. 49° W. 9 lbs.<br>dist. marked T. 11 S. R. 2 E. S. 32. 93. T.<br>An aspen, 5 ins. diam. bears H. 37° 30' W. 10 lbs.<br>dist. marked T. 11 S. R. 2 E. S. 29. 93. T.<br>Land mountainous.<br>Soil. Stony 3 $\frac{1}{2}$ Rate.<br>Timber aspen.<br>Mountainous land. 80.00 chs. |

11

East, on a random line,  
bet. secs. 28. <sup>and</sup> 33.  
40.00 Set temp.  $\frac{1}{4}$  sec. cor.  
80.00 Intersect H. <sup>and</sup> S. line.  
at cor. of secs. 27, 28, 33 <sup>and</sup> 34.

## Submission of T. 11 S. R. 4 E. - Surveyed

| Chains |                                                                                                                                                                                                                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Then I run<br>West, on a line line,<br>bet. secos. 28 and 33<br>Descend, through dense brush<br>and scattering fine and aspen<br>timber.                                                                                                                                                                                      |
| 19.75  | Gavine, 300 ft. deep. Course S.<br>Ascend.                                                                                                                                                                                                                                                                                    |
| 40.00  | Set a quartzite stone 12x8x6 ins.<br>8 ins. in the ground, for a<br>sec. cor., marked $\pm$ S. 33. 93. T.<br>on S. face: from which<br>An aspen, 3 ins. diam. bears S. 6° E.<br>9 ltrs. dist. marked $\pm$ S. 33. 93. T.                                                                                                      |
|        | An aspen, 3 ins. diam. bears N. 9° E.<br>16 ltrs. dist. marked $\pm$ S. 28. 93. T.                                                                                                                                                                                                                                            |
| 44.90  | Top of bare ridge, bears N. W.<br>and S. E. descend.                                                                                                                                                                                                                                                                          |
| 49.00  | Enter heavy aspen timber,<br>bears N. and S.                                                                                                                                                                                                                                                                                  |
| 51.50  | East fork of Salt Creek, 2 ltrs.<br>wide, pure water, 3 ins. deep,<br>in Canon 800 ft. deep.<br>Course S. W. Ascend.                                                                                                                                                                                                          |
| 50.00  | The cor. of secos. 28, 29, 32 and 33.<br>Land mountainous.<br>Soil stony 3rd Rate.<br>Timber aspen and pine.<br>Mountainous land, 80 00 chs.<br>July 31: At this cor. I set<br>off 18' 9" H. on the decl. arc:<br>and at 0° 6" p. m., 1. m. t.<br>observe the sun on the<br>meridian, the resulting<br>lat. is 39° 49' 32" N. |

Subdivision of T. 11 S. R. 2 C. - Continued.

Chains

- 47.00 3 ft. bet. secs. 28 and 29.  
Over broken land. Ascend  
through heavy aspen timber.
- 40.00 Set a quartzite stone 24x22x12 ins.  
18 ins. in the ground, for  $\frac{1}{4}$  sec.  
Cor., marked  $\frac{1}{4}$  S. 29, W. 24, E. faces;  
from which
- An aspen, 12 ins. diam. bears west,  
27 lbs. dist. marked  $\frac{1}{4}$  S. 29, N. T.
- An aspen, 5 ins. diam., bears N. 42° E., 25  
lbs. dist. marked  $\frac{1}{4}$  S. 28, N. T.
- 50.80 Top of ridge, bears N. N. and S. E.  
Descend.
- 57.60 Head of a ravine, course E.  
Ascend.
- 66.00 Top of aspen, projects E. descend.
- 74.00 Head of Nebo Canon, course  
E. ascend.
- 80.00 Set a quartzite stone, 14x10x10 ins.  
10 ins. in the ground, for cor. of  
secs. 20, 21, 28 and 29. marked  
with 2 notches on S. and 4  
notches on E. edges:  
from which
- An aspen, 5 ins. diam. bears N. 56° 30' E. 8 lbs.  
dist. marked T. 11 S. R. 2 C. S. 21, N. T.
- An aspen, 5 ins. diam. bears S. 69° E. 29 lbs.  
dist. marked T. 11 S. R. 2 C. S. 28, N. T.
- An aspen, 12 ins. diam. bears S. 20 W. 12 lbs.  
dist. marked T. 11 S. R. 2 C. S. 29, N. T.
- An aspen, 15 ins diam. bears N. 49 W. 17 lbs.  
dist. marked T. 11 S. R. 2 C. S. 20, N. T.
- This cor. is 900 ft. above  
the cor. of secs. 28, 29, 32 and 33.  
Land mountainous.  
Soil stony 3<sup>rd</sup> Rate.  
Timber aspen.  
Mountainous land, 80.00 chs.

## Subdivision of T. 11 S. R. 5 E. Continued.

|         |                                                                                                                                                                                                                                                                                                                     |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains  |                                                                                                                                                                                                                                                                                                                     |
|         | East on a random line.<br>bet. secs. 21 and 28.                                                                                                                                                                                                                                                                     |
| 40.00   | Set temp. & sec. cor.                                                                                                                                                                                                                                                                                               |
| 80.00   | Intersect N. and S. line,<br>at cor. of secs. 21, 22, 27 and 28.<br>Thence down<br>West, on a true line,<br>bet. secs. 21 and 28.<br>Descend through heavy aspen<br>timber.                                                                                                                                         |
| 22.70   | Fork of Hebo Creek. 1st. wide.<br>2 ins. deep, in ravine 350 ft<br>deep. Course S. E. Ascend<br>over broken land.                                                                                                                                                                                                   |
| 40.00   | Let a brachyte stone, 15, 15, 8 ins.<br>10 ins. in the ground, for a sec.<br>Cor. marked to S. 21 on N. and 28. on S. faces;<br>from which<br>An aspen, 5 ins. diam. bears N. 51° E., 14<br>ths. dist., marked to S. 21. 93. T.<br>An aspen, 5 ins. diam. bears S. 4° W., 10<br>ths. dist., marked to S. 28. 93. T. |
| - 80.00 | The cor. of secs. 20, 21, 28 & 29.<br>800 ft. above the cor. of secs.<br>21, 22, 27 and 28.<br>Land mountainous.<br>Soil stony 3 <sup>rd</sup> Rate.<br>Timber aspen.<br>Mountainous land, 80.00 ch.                                                                                                                |
|         | July 31, 1901.                                                                                                                                                                                                                                                                                                      |

August 1: At 8 A. M. I. set off 38° 50' N. on the Lat. arc.  
18° 04' W. on the Decl. arc: and  
determine a true meridian  
with the solar. at the cor. of  
secs. 20, 21, 28 and 29.  
Thence down  
N. 0° 3' W. bet. secs. 20 and 21.

Subdivision of T. 11 S. M. I. C. Cont.

|        |                                                                                                                                                                                                                                                                                                                                                       |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains | Ascend through heavy aspen timber.                                                                                                                                                                                                                                                                                                                    |
| 3.10   | Top of divide between Deb. and Santquin Canons, 100 ft above sec. cor., bears N. E. $\frac{1}{4}$ S. W.                                                                                                                                                                                                                                               |
|        | descend.                                                                                                                                                                                                                                                                                                                                              |
| 10.00  | Head of ravine, Course N. E.<br>ascend.                                                                                                                                                                                                                                                                                                               |
| 40.00  | Top of ridge, bears N. E. $\frac{1}{4}$ S. W. Ascend<br>set a biachyte stone 10x8x6 ins. 10 ins.<br>in the ground, for 1/4 sec. cor.<br>marked $\frac{1}{4}$ S. 20. on D. & S. on E. faces<br>from which<br>An aspen, 12 ins. diam., bears S. 51 $\frac{1}{4}$ W.<br>15 lbs. dist. marked $\frac{1}{4}$ S. 20. B. T.                                  |
|        | An aspen, 6 ins. diam., bears N. 62 $\frac{1}{2}$ E.<br>57 lbs. dist. marked $\frac{1}{4}$ S. 21. B. T.                                                                                                                                                                                                                                               |
| 74.85  | Ravine, 400 ft. deep, Course N. E.<br>Ascend.<br>Set a slate stone, 30x6x6 ins. 28 ins.<br>in the ground, for cor. of secs.<br>16, 17, 20 and 21, marked with 3<br>notches on the S. and 4 notches<br>on the E. edges.<br>from which<br>An aspen, 5 ins. diam., bears N. 29 $\frac{1}{2}$ E.<br>91 lbs. dist. marked<br>T. 11 S. R. 2 C. S. 16. B. T. |
|        | An aspen, 8 ins. diam., bears S. 59 $\frac{1}{2}$ E.<br>60 lbs. dist. marked<br>T. 11 S. R. 2 C. S. 21. B. T.                                                                                                                                                                                                                                         |
|        | An aspen, 15 ins. diam., bears S. 55 $\frac{1}{4}$ W.<br>14 lbs. dist. marked<br>T. 11 S. R. 2 C. S. 20. B. T.                                                                                                                                                                                                                                        |
|        | An aspen, 14 ins. diam., bears N. 43 $\frac{1}{2}$ W.<br>1.85 chs. dist. marked<br>T. 11 S. R. 2 C. S. 17. B. T.                                                                                                                                                                                                                                      |
|        | This cor. is 500 feet below<br>the top of the divide.                                                                                                                                                                                                                                                                                                 |

## Subdivision of T.M.S. R. &amp; C. Cont.

|        |                                                                                                            |
|--------|------------------------------------------------------------------------------------------------------------|
| Chains | Land mountainous.<br>Soil stony. 3 <sup>rd</sup> Rate.<br>Timber, of aspen.<br>Mountainous land, 8000 chs. |
|--------|------------------------------------------------------------------------------------------------------------|

- East, on a random line  
bet. secs. 16 and 21.  
Set temp. + sec. cor.  
80.00 Intersect N. and S. line, 9 chs.  
It. of the cor. of secs. 15, 16, 21 and 22.  
Thence I run  
N. 89° 56' W. on a true line,  
bet. secs. 16 and 21,  
Ascend through heavy aspen  
timber.  
8.00 Top of divide between Ilabo  
and Santquin Canions, 150  
ft. above sec. cor. bears  
N. E. and S. W. descending.  
Leave timber bears N. E. and S. W.  
28.00 Head of ravine, Course N. ascend  
Enter scattering pine timber.  
35.90 Top of spur, projects N. descend.  
Leave timber bears N. and S.  
Enter dense brush and brake.  
40.00 Set a trachyte stone 18x8x6 ins.  
12 ins. in the ground, for  
 $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  S. N. W.  $\frac{1}{4}$  E.  
on S. faces and raise a mound  
of stone, 8 ft. base, 1 $\frac{1}{2}$  ft.  
high. It. of cor.  
Ridge impracticable.  
61.00 Ravine, 800 ft. deep, Course  
N. E. ascend.  
70.00 Top of spur, projects N. E.  
descend.  
76.00 Ravine, 450 ft. deep, Course N. E.  
ascend, through scattering aspens.

Submission of T. H. S. H. & C. Cont'd.

| Chains  |                                                                                                                                                                                                                                                                                                                                                                                                                  |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - 80.00 | The cor. of secs. 16, 17, 20, and 21.<br>Land mountainous.<br>Soil stony 3 <sup>rd</sup> Rate.<br>Timber, aspen and pine.<br>Mountainous land, 80.00 chs.<br>August 1: At this cor. I set<br>off 18° 04' H. on the decl. arc.<br>And at 0° 6' p. m. l. m. b.<br>observe the sun on the<br>meridian the resulting lat.<br>is 39° 51' H.                                                                           |
| 14.00   | H. 0° 3' H. bet. secs. 16 and 17.<br>Ascend - through heavy aspen<br>timber.                                                                                                                                                                                                                                                                                                                                     |
| 34.00   | Top of spur, projects N. E.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                          |
| 40.00   | Top of spur, projects N. E.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                          |
| 50.00   | Set a red Sandstone, 16x8x8 ins.<br>11 ins. in the ground, for cor. of sec.<br>Cor., marked $\frac{1}{4}$ S. 17, on W, $\frac{3}{4}$ 16. on E.<br>faces from which<br>an aspen, 8 ins. diam., bears H. 59° H.<br>8 lbs. dist. marked $\frac{1}{4}$ S. 17, B. T.<br>an aspen, 6 ins. diam., bears S. 87° E.<br>24 lbs. dist. marked $\frac{1}{4}$ S. 16, B. T.<br>Top of ridge, bears H. E. and S. W.<br>Descend. |
| 67.50   | Enter heavy pine timber, bears<br>H. E. and S. W.                                                                                                                                                                                                                                                                                                                                                                |
| - 80.00 | Leave timber, bears H. E. and S. W.<br>Enter dense brush and brake.<br>Set a limestone, 22x12x6 ins., 16<br>ins. in the ground, for cor. of<br>secs. 8, 9, 16 and 17, marked with<br>4 notches on S. and E. edges;                                                                                                                                                                                               |

Sub-division of T. 11 S., R. 2 E. Continued

|        |                                                                                                                                                                                                                                                                                                                                    |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains | <p>And raise a mound of stone,<br/>2 ft. base, 1<math>\frac{1}{2}</math> ft. high. It. of cor.<br/>Pits impracticable</p> <p>This cor. is 600 ft. below the<br/>top of ridge, 30.60 chs. South.<br/>Land mountainous.</p> <p>Soil stony 3<sup>rd</sup> Rate.</p> <p>Timber aspen and pine.</p> <p>Mountainous land, 80.00 chs.</p> |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|       |                                                                                                                        |
|-------|------------------------------------------------------------------------------------------------------------------------|
| 40.00 | <p>S. 89° 56' E., on a random line,<br/>bet. secs. 9 and 16.</p> <p>Set - temp. <math>\frac{1}{4}</math> sec. cor.</p> |
| 40.00 | <p>Intersect. N. and S. line, 9 lbs.<br/>S. of cor. of secs. 9, 10, 15 and 16.</p> <p>Thence down</p>                  |
| 41.00 | <p>West, on a true line,<br/>bet. secs. 9 and 16.</p> <p>Descend through heavy aspen<br/>timber.</p>                   |
| 42.00 | <p>Fork of Santaguir Creek. (now dry)<br/>in Cañon 800 ft. deep, course<br/>N. W. ascend.</p>                          |
| 43.00 | <p>Enter scattering pine timber.</p>                                                                                   |
| 44.00 | <p>Top of spur, projects. N. W. descend.</p>                                                                           |
| 45.00 | <p>Set a Sandstone 16 x 10 x 6 ins.<br/>11 ins. in - the ground, for <math>\frac{1}{4}</math> sec.</p>                 |
| 46.00 | <p>Cor. marked <math>\frac{1}{4}</math> S. 9. on N. <math>\frac{1}{4}</math> 16. on S. faces<br/>from which</p>        |
| 47.00 | <p>An aspen, 3 ins. diam., bears N. 6° E.<br/>11 lbs. dist. marked <math>\frac{1}{4}</math> S. 9. B. T.</p>            |
| 48.00 | <p>An aspen, 5 ins. diam., bears S. 32° E.<br/>9 lbs. dist. marked <math>\frac{1}{4}</math> S. 16. B. T.</p>           |
| 49.00 | <p>Ravine, 800 ft. deep, course N.<br/>Ascend.</p>                                                                     |
| 50.00 | <p>Top of ridge, bears N. E. and S. W.<br/>Descend, leave timber bears<br/>N. E. and S. W. to dry brush.</p>           |

DUVAL MOUNTAINS

Distribution of T. 11 S. W. & C. Continued.

|                   |                                                                                                                                                                                                                                                                                              |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains<br>- 80.00 | The cor. of secs. 8, 9, 16 and 17.<br>Land mountainous.<br>Soil stony 3rd Rate.<br>Timber aspen and pine.<br>Mountainous land. 80.00 chs.<br>August 1, 1901.                                                                                                                                 |
|                   | August 2: Ct., A.M. I. m. b. I.<br>Set off 39° 52' H. on the lat.<br>arc: 17° 53' H. on the decl. arc<br>and determine a true<br>meridian with the solar,<br>at the cor. of secs. 8, 9, 16 and 17.<br>Thence I run<br>H. 0° 3' W. bet. secs. 8 and 9.<br>Descend through dense oak<br>brush. |
| 15.00             | Fork of Santagrin Creek, 4 lks.<br>wide, pure water, 4 ins. deep,<br>in canon 800 ft. deep, course<br>H. C. Ascend!                                                                                                                                                                          |
| 26.20             | Top of ridge, bears H. C. and S. W. Descend<br>Enter heavy aspen timber, bears<br>H. C. and D. S. It.                                                                                                                                                                                        |
| 35.75             | Ravine, 200 ft. deep. Course E.<br>Ascend,<br>Leave timber, bears E. and S. W.                                                                                                                                                                                                               |
| 40.00             | On top of rocky spur, projecting<br>S. C.<br>Set a limestone 20x14x6 ins. 15 ins.<br>in the ground, for 4 sec. cor.<br>marked 4 S. 8. on W. & 9. on C. faces:<br>And raise a mound of stone,<br>8 ft. base, 1½ ft. high, H. of cor.<br>Pits impracticable.                                   |
|                   | Descend, along the east slope<br>of the west bank of<br>Santagrin Canon through<br>scattering pine and laurel, oak                                                                                                                                                                           |

Subdivision of T. 11 S., R. 2 C. Continued

|        |                                                                                                                                                                                                                                                                                   |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains |                                                                                                                                                                                                                                                                                   |
| 80.00  | and maple brush.<br>Set a limestone 18x12x4 ins.<br>12 ins. in the ground, for<br>Cor. of secs. 4, 5, 8 and 9 marked<br>with 5 notches on the S.<br>and 4 notches on the E. edges:<br>from which                                                                                  |
|        | A pine, 5 ins. diam. bears N. 87° E.<br>57 lbs. dist. marked<br>T. 11 S., R. 2 C., S. 4, B. T.                                                                                                                                                                                    |
|        | A pine, 4 ins diam. bears S. 64° E.<br>43 lbs. dist. marked<br>T. 11 S., R. 2 C., S. 9, B. T.                                                                                                                                                                                     |
|        | A pine, 12 ins. diam. bears S. 41° W.<br>34 lbs. dist. marked<br>T. 11 S., R. 2 C., S. 8, B. T.                                                                                                                                                                                   |
|        | A pine, 8 ins. diam. bears N. 68° W.<br>61 lbs. dist. marked<br>T. 11 S., R. 2 C., S. 5 B. T.                                                                                                                                                                                     |
|        | Land mountainous<br>Soil stony & rocky<br>Timber, aspen and pine.<br>Mountainous land, 80.00 chs.<br>Augus 2d: At this Cor. I set<br>off 17° 49' H. on the steel arc:<br>And at ob. 6° p. m. l. m. l.<br>observe - the sun on the<br>meridian the resulting lat.<br>is 39° 53' H. |

East, on a random line,  
bet. secs. 4 and 9.

40.00 Set-temp. 4 sec. so.

80.00 Intersect N. and S. line,  
At cor. of secs. 3, 4, 9 and 10.

Thence down

West, on a true line,

Subdivision of T. 11 S., R. 2 E. Cont'd.

| Chains  |                                                                    |
|---------|--------------------------------------------------------------------|
|         | bet. secs. 4 and 9.                                                |
|         | Ascend, through dense oak, elder bush and scattering aspen timber. |
| 6.00    | Leave timber. Top of ridge.                                        |
|         | Along top of bare ridge, bears E. and W.                           |
| 20.30   | Ridge, bears N. W. Descend.                                        |
| 30.50   | Ravine, 150 ft. deep. Course S.                                    |
|         | Ascend.                                                            |
| 32.80   | Top of spur, projects S. E. descend.                               |
|         | Enter scattering aspen and pine-timber.                            |
| 39.15   | Ravine 600 ft. deep. Course N. W.                                  |
|         | Ascend.                                                            |
| 40.00   | Set a red sandstone 20 x 12 x 8 ins.                               |
|         | 15 ins. in the ground, for $\frac{1}{4}$ sec.                      |
|         | Cor. marked $\frac{1}{4}$ S. 4. W. $\frac{3}{4}$ N. 9. on S. face; |
|         | from which                                                         |
|         | An aspen, 3 ins. diam. bears S. 5 lbs.                             |
|         | Dist., marked $\frac{1}{4}$ S. 9. N. 13. T.                        |
|         | A pine, 3 ins. diam., bears N. 88 E., 13                           |
|         | lbs. Dist., marked $\frac{1}{4}$ S. 4. N. 13. T.                   |
| 60.00   | Top of spur, projects N. W.                                        |
|         | Begin steps descent.                                               |
| 74.50   | Summit Creek, 10 lbs. wide.                                        |
|         | Fine water, 12 ins. deep. in                                       |
|         | Santquin Canon 1000 ft.                                            |
|         | Deep. Course N. W.                                                 |
| 74.75   | Canon road, bears N. W. and S. E.                                  |
|         | Begin steps ascent, over                                           |
|         | Stony land.                                                        |
| - 80.00 | The cor. of secs. 4, 5, 8 and 9.                                   |
|         | Land mountainous                                                   |
|         | Soil stony 3 <sup>rd</sup> and 4 <sup>th</sup> Rate.               |
|         | Timber, pine and aspen.                                            |
|         | Mountainous land, 80.00 lbs.                                       |

# Subdivision of T. 11 S., R. 2 E. Continued

| Chains |                                                                                                                                                                                                                                                                                                  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | H. 0° 3' 44.                                                                                                                                                                                                                                                                                     |
|        | bet: secs. 4 and 5.                                                                                                                                                                                                                                                                              |
|        | Descend. through dense oak,<br>larch and maple timber.                                                                                                                                                                                                                                           |
| 5.10   | Sutherland's Creek, 4 lbs. wide,<br>fine water, 4 ins. deep, in<br>Cañon, 800 ft. deep, Course N. E.<br>Begin steep ascent over<br>Stony land.                                                                                                                                                   |
| 12.10  | Top of spur, projects N. E.<br>Descend. through scattering<br>fine timber.                                                                                                                                                                                                                       |
| 23.00  | Cañon road, bears H. W. and S. E.                                                                                                                                                                                                                                                                |
| 24.25  | Summit Creek, 8 lbs. wide, fine<br>water, 10 ins. deep, in<br>Santaquin Cañon, 800 ft. deep,<br>Course H. W. Ascend!                                                                                                                                                                             |
| 29.00  | Top of spur, projects W. descend.                                                                                                                                                                                                                                                                |
| 34.50  | Ravine, 300 ft. deep, Course<br>S. W. Ascend.                                                                                                                                                                                                                                                    |
| 40.00  | Set a Sandstone 14x13x3 ins.<br>10 ins. in the ground, for 1 sec.<br>Cor., marked 4 S. 5. on N. & 4. on E. faces;<br>from which<br>A pine, 8 ins. diam. bears H. 55° 30' E.<br>37 lbs. dist. marked 4 S. 4. B. T.<br>A pine, 12 ins. diam. bears H. 10° W. 52<br>lbs. dist. marked 4 S. 5. B. T. |
| 51.75  | Top of spur, projects E. descend.                                                                                                                                                                                                                                                                |
| 56.00  | Intersect <del>the</del> Standard<br>Parallel South, 8.60 chs. E. of<br>the Standard 1 sec. cor. of<br>sec. 33. T. 10 S. R. 2 E.<br>In which is a Sandstone 6x9x7<br>ins. above the ground,<br>marked and witnessed as<br>described by the Surveyor<br>General.                                  |
|        | Set a quartzite stone 13x9x5<br>in. 9 ins. in the ground,                                                                                                                                                                                                                                        |

## Subdivision of T. 11 S., R. 2 C., Continue

Chains

for closing cor. of secs. 4 and 5.  
marked C. C. on S. face,  
with 4 grooves on E. and 2  
grooves on W. face:  
from which

W fine, 8 ins. diam. bears

S. 55° 30' C. 7 lbs. dist. marked  
T. 11 S., R. 2 C., S. 4, B. T.

W fine, 12 ins. diam. bears S. 55° W.  
18 lbs. dist. marked

T. 11 S., R. 2 C., S. 5, B. T.

Land mountainous

Soil stony 3<sup>rd</sup> and 4<sup>th</sup> Rate

Timber, aspen and pine.

Mountains sand: 56.00 lbs.

August 2, 1901.

August 3: At 7 a.m. I am b.

I set off 39° 49' H. on the  
lat. arb: 17° 38' H. on the decl.  
arc: and determine a true  
meridian, with the solar  
on the S. bdy. of the Tp. at  
the cor. of secs. 5, 6, 31 and 32.  
hitherto described. H. 0° 3' W. lat. 40° 31' 38.2'

On broken rocky land,

Ascend along the east

slope, of the west bank,

of the west fork of Salt

Creek Cañon, through dense  
larch and oak brush.

31.00 Top of spur, projects S. E.

Begin S. tip. Descend.

60.00 Set a sandstone 15x10x6 ins. 10  
ins in the ground, for 1/4 sec. cor.  
Marked 4, S. 31, on W. and 32 on E. faces:

Find raised a mound of stone,  
2 ft. base, 1 1/2 ft. high, W. of cor.

Pits impracticable.

Subdivision of T. 11 S. R. 2 E. Continued

|         |                                                                                                                                                                                                                                                                                            |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains. |                                                                                                                                                                                                                                                                                            |
| 45.00   | Spring branch, 2 ltrs. wide,<br>in a narrow ravine, 600 ft. deep.<br>Course S. E. ascend.                                                                                                                                                                                                  |
| 69.00   | Top of spur, projects S. E. descend.                                                                                                                                                                                                                                                       |
| 80.00   | Set a sandstone 12 x 12 x 6 ins. 8 ins.<br>in the ground, for cor. of secs.<br>29, 30, 31 and 32. marked with 5 notches<br>on the E. and 1 notch on the<br>S. edges: and raise a mound<br>of stone, 2 ft. base, 1 1/2 ft. high.<br>W. of cor.<br>Ridge impracticable.<br>Land mountainous. |
|         | Soil stony 3 <sup>rd</sup> and 4 <sup>th</sup> Rate.<br>No timber.<br>Mountainous land, 80.00 chs.                                                                                                                                                                                         |

|       |                                                                                                                                                                                                                                                                                                                          |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | East. on a random line,<br>bet. secs. 29 and 32.                                                                                                                                                                                                                                                                         |
| 40.00 | Set temp. 1/4 sec. cor.                                                                                                                                                                                                                                                                                                  |
| 80.00 | Intersect H. and S. line.<br>At cor. of secs. 28, 29, 32 and 33.<br>Thence I run<br>West, on a true line, bet.<br>secs. 29 and 32.                                                                                                                                                                                       |
|       | Ascend. through heavy aspen<br>timber.                                                                                                                                                                                                                                                                                   |
| 39.25 | Top of ridge, bears H. and S.<br>descend.                                                                                                                                                                                                                                                                                |
| 40.00 | Set a sandstone 15 x 10 x 6 ins., 10 ins.<br>in the ground, for 1/4 sec. cor.,<br>marked 1/4 S. 2 1/4 E. on H. & 3 1/4 S. on S. faces:<br>from which<br>An aspen, 3 ins. diam., bears H. 8 ltrs.<br>dist. marked 1/4 S. 29, 33. F.<br>An aspen, 3 ins. diam., bears S. 15° E. 11<br>ltrs. dist. marked 1/4 S. 32. 33. F. |

## Subdivision of T. 11 S. R. 2 E. Continued

Chains

65.50 West fork of Salt Creek, 5 lks. wide, pure water, 4 ins. deep, in  
Canyon 1500 ft. deep. Course S.  
Leave timber bears N. and S.  
Ascend over broken stony  
land, through dense brush.  
The cor. of secs. 29, 30, 31 and 32.  
Land mountainous.  
Soil stony 3<sup>rd</sup> and 4<sup>th</sup>. Rate  
Timber pine and aspen.  
Mountainous land. 80.00 chs.  
August 1-3; At this cor. I set-  
off 17°34' N. on the decl. arc:  
and at 0° 6' p. m. I. m. b.  
observe the sun on the  
meridian, the resulting  
lat. is 39° 49' 32" N

West, on a random line,  
bet. secs. 30 and 31.  
Set temp.  $\frac{1}{4}$  sec. cor.  
Intersect, west bdy. of Tp.  
at the cor. of secs. 25, 30, 31 and 36.  
here tofore described.  
Thence I run  
East, on a true line,  
bet. secs. 30 and 31.  
Descend abruptly over rough,  
rocky and broken land.  
28.00 Spring branch, 1 lk. wide,  
in ravine, 500 ft. deep  
Course S. E. ascend.  
37.50 Set a Sandstone, 15 x 12 x 8 ins.  
16 ins. in the ground, for  
 $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. 30. on N.  
and 31. on S. faces; and raise a  
mound of stone, 2 ft. base,

Subdivision of T. 11 S. R. 2 E. continued.

|               |                                                                                                                                            |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <u>Chains</u> |                                                                                                                                            |
|               | 12 ft. high. It. of cor.<br>Pits impracticable.                                                                                            |
| 66.00         | Top of ridge, bears N. E. and S. It<br>descend, through dense<br>larch and oak bush.                                                       |
| -77.50        | The cor. of secs. 29, 30, 31 and 32.<br>Land mountainous.<br>Soil stony 4 <sup>th</sup> Rate.<br>No timber<br>Mountainous land. 77.50 chs. |

|       |                                                                                                                                                                                                                                            |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | 11.0° 3' H. bet. Secs. 29 and 30.<br>Over broken rocky land,<br>descend through dense<br>larch and oak bush.                                                                                                                               |
| 16.00 | Ravine, 300 ft. deep, course S. E.<br>Ascend.<br>Enter heavy aspen and pine<br>timber. Bears H. W. and S. C.                                                                                                                               |
| 38.70 | Top of spur, projects E. descend.                                                                                                                                                                                                          |
| 40.00 | Set a sandstone 14x8x6 ins., 10 ins.<br>in the ground, for $\frac{1}{4}$ sec. cor.<br>marked $\frac{1}{4}$ S. 29, on H. 430. on S. faces<br>from which                                                                                     |
|       | A pine, 6 ins. diam., bears 1134° C., 22 lbs.<br>Dist. marked $\frac{1}{4}$ S. 29, B. T.                                                                                                                                                   |
|       | A pine, 4 ins. diam., bears S. 73° W., 11 lbs.<br>Dist. marked $\frac{1}{4}$ S. 32, B. T.                                                                                                                                                  |
| 49.00 | Ravine, 600 ft. deep, course E.<br>Ascend.                                                                                                                                                                                                 |
| 65.00 | Leave timber, bears E. and W.                                                                                                                                                                                                              |
| 80.00 | Set a limestone 15x8x8 ins., 10 ins.<br>in the ground, for cor. of secs.<br>19, 20, 29 and 30, marked with<br>5 notches on the E. and E.<br>notches on the S. edges and<br>raise a mound of stone, 2 ft.<br>base, 12 ft. high. It. of cor. |

Subdivision of T. 11 S., R. 2 E., Continue

|        |                                                                                                                                                                                                                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains | <p>Vito impracticable.<br/>Land mountainous<br/>Soil stony, 3<sup>rd</sup> and 4<sup>th</sup> Rate.<br/>Timber aspen and pine.<br/>Mountainous land. 80.00 chs</p> <p style="text-align: right;">August 3, 1901</p>                                                                                                           |
|        | <p>August 4: At 7 A. M., I m. l. I set off 39' 50" N. on the lat. arc:<br/>17' 22" W. on the decl. arc: and determine a true meridian, with the solar. at the cor. of secs. 19, 20, 29 and 30.</p> <p>Thence I run</p> <p>East on a random line bet. secs. 20 and 29.</p> <p>Set temp. <math>\frac{1}{4}</math> sec. cor.</p> |
| 40.00  | In line 1 - N. and S. line,                                                                                                                                                                                                                                                                                                   |
| 80.00  | at cor. of secs. 20, 21, 28 and 29.                                                                                                                                                                                                                                                                                           |
|        | Thence I run                                                                                                                                                                                                                                                                                                                  |
|        | West, on a true line, bet. secs. 20 and 29.                                                                                                                                                                                                                                                                                   |
|        | descend through heavy aspen timber.                                                                                                                                                                                                                                                                                           |
| 3.00   | Isham, 50 ft. deep, Course S. E. Ascend.                                                                                                                                                                                                                                                                                      |
| 18.00  | Top of ridge, bears S. E. and S. W. Descend. Enter scattering pine. Junction of 4 ridges. 5 chs. H.                                                                                                                                                                                                                           |
| 40.00  | set a quartzite stone 16 x 10 x 4 ins. 11 ins. in the ground, for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ S. 20. B. T. on H. face; and $\frac{3}{4}$ S. 9. on S. face: from which                                                                                                                                        |
|        | lin aspen, 4 ins. diam. bears S. 43° E. 26 lbs. dist. marked $\frac{1}{4}$ S. 20. B. T.                                                                                                                                                                                                                                       |
|        | An aspen, 10 ins. diam. bears S. 82° E. 65 lbs. dist. marked $\frac{1}{4}$ S. 29. B. T.                                                                                                                                                                                                                                       |
| 44.25  | Ravine, 700 ft. deep. Course S. 25° W.                                                                                                                                                                                                                                                                                        |

## Subdivision of T. 11 S., R. 2 E. Continued.

| Chains |                                                                                                                                                      |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Ascend.                                                                                                                                              |
| 62.00  | Top of spur, projects. S. descent.                                                                                                                   |
| 74.00  | West fork of Salt Creek. 3 lks. wide, pink water, 4 ins. deep, in Cañon 800 ft. deep.<br>Course S. ascend.                                           |
|        | Lean-timber, bears N. and S.<br>Over stony land.                                                                                                     |
| 80.00  | The cor. of secs. 19, 20, 29 and 30.<br>Land mountainous.<br>Soil. Stony 3rd and 4th Rate.<br>Timber aspen and pine.<br>Mountainous land. 80.00 hrs. |

|       |                                                                                                                                                                                                              |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | West on a random line,<br>bet. secs. 19 and 30.                                                                                                                                                              |
| 40.00 | Set temp. 4 sec. cor.                                                                                                                                                                                        |
| 74.42 | Intersect west body. of Tp.<br>at the cor. of secs. 19, 24, 25 and 30.<br>Hitherto described. Then I run<br>East. on a line line,<br>bet. secs. 19 and 30.                                                   |
|       | Cross broken rocky land<br>descent.                                                                                                                                                                          |
| 1.00  | Ravine, 800 ft. deep, course S. E.<br>Begin steep ascent.                                                                                                                                                    |
| 21.10 | Top of sharp rocky ridge.<br>1000 ft. above the cor. of secs.<br>19, 20, 29 and 30. bears N. W. and S. E.<br>Begin abrupt descent.                                                                           |
| 37.42 | Set a sandstone 16 x 10 x 6 ins.<br>11 ins. in the ground, for 4 sec.<br>Cor. marked 4 S. 19, on N. E. faces:<br>And raise a mound of stone.<br>2 ft. base, 1.5 ft. high, It. of cor.<br>This impracticable. |
| 43.60 | Top of sandstone ledges, 200 ft. high                                                                                                                                                                        |

## Subdivision of T. 11 S. R. 2 E. Continued.

Chains

- Bear H. E. and S. W.  
45.00 Descent becomes less steep  
The cor. of secs. 19, 20, 29 and 30.  
Land mountainous.  
Soil - Stony. 11th Rule.  
No timber.  
Mountainous land 77.42 chs.  
August 4: At this cor. I set  
off 18° 18' H. on the decl. arc:  
and at 0° 6' fi. N. S. W. L.  
observe the sun on the  
meridian, the resulting lat.  
is 34° 50' H.
- H. 0° 3' W. bet. secs. 19 and 20  
Descent, over rocky soil.  
15.00 West fork of Salt Creek, 3 mrs. wide.  
pure water, 4 ins. deep, in  
Cañon 500 ft. deep, Course S. E.  
Ascend.  
Enter scattering pine timber.  
28.00 Top of spur, projects H. descent.  
36.80Leave timber, enter dense  
oak brush.  
39.90 Ravine, 400 ft. deep, Course, S. W.  
Ascend.  
40.00 Set a quartzite stone, 15 x 12 x 10  
ins., 10 ins. in the ground,  
for 1/4 sec. cor., marked 1/4 S. 19, 01 1/4  
E. 20 on E. faces, and raise a  
mound of stone, 2 ft. base.  
1 1/2 ft. high, W. of cor.  
This impracticable.  
61.30 Top of divide, between  
Salt Creek and Santquin  
Cañons, 1000 ft. above the cor.  
of secs. 19, 20, 29 and 30, bears  
E. and W. descent.

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# Subdivision of T. 11 S. R. 2 E. Continued

|        |                                                                                                                                                                                                  |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains |                                                                                                                                                                                                  |
| 63.00  | Enter dead pine timber,<br>bears E. and W.                                                                                                                                                       |
| 68.00  | Leave heavy aspen and pine<br>timber. Bears E. and W.                                                                                                                                            |
| 80.00  | Set a quartzite stone, 16 x 10 x 6<br>ins., 11 ins. in the ground.<br>for cor. of secs. 14, 18, 19 and 20.<br>marked with 3 notches on<br>the S. and 5 notches on<br>the E. edges:<br>from which |
|        | A fine, 8 ins. diam., bears<br>H. 48° 30' E., 65 lbs. dist., marked<br>T. 11 S. R. 2 E., S. 17, 18. T.                                                                                           |
|        | A fine, 12 ins. diam., bears S. 69° E.<br>55 lbs. dist., marked<br>T. 11 S. R. 2 E., S. 20, 21. T.                                                                                               |
|        | A fine, 10 ins. diam., bears S. 45° W.<br>70 lbs. dist., marked<br>T. 11 S. R. 2 E., S. 14, 18. T.                                                                                               |
|        | A fine, 14 ins. diam., bears H. 26° W.<br>98 lbs. dist., marked<br>T. 11 S. R. 2 E., S. 18, 19. T.                                                                                               |
|        | Land mountainous.<br>Soil stony, 3 <sup>rd</sup> and 4 <sup>th</sup> Rate.<br>Timber aspen and pine.<br>Mountainous land, 80.00 chs.                                                             |

Cast, on a random line,  
bet. secs. 17 and 20,  
set - temp.  $\frac{1}{4}$  sec. cor.  
Intersect H. and S. line, 9 lbs. H.  
of the cor. of secs. 16 17 20 and 21  
Prince I run.,  
H. 89° 56' W. on a true line  
bet. secs. 17 and 20.  
Ascend, through heavy

Subdivision of T. 11 S., R. 2 E. Continued

| Chains  |                                                                                                                                                               |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26.00   | Top of ridge, 500 ft. above sec. cor.<br>Bears N. E. and S. E. declinat.                                                                                      |
| 40.00   | Set a red sand-stone 18x15x5 ins.<br>12 ins. in the ground, for<br>1 sec. cor., marked $\frac{1}{4}$ S. 17. on<br>N. face and S. 0. on S. face;<br>from which |
|         | A fine, 6 ins. diam., bears S. 8° E.<br>19 ins. dist., marked $\frac{1}{4}$ S. 20, N. 3. T.                                                                   |
|         | A fine, 6 ins. diam., bears N. 31° E., 41<br>ins. dist., marked $\frac{1}{4}$ S. 17, N. 3. T.                                                                 |
| 40.50   | Fork of Santquin creek. 2 ins.<br>wide, pure water. 4 ins. deep,<br>in canon 800 ft. deep, course<br>N. E. ascend.                                            |
| 61.00   | Leave timber, bears N. and S.                                                                                                                                 |
| 72.25   | Top of ridge, bears N. E. and S. E.<br>Declinat.                                                                                                              |
| 74.00   | Enter bears aspen and pine<br>timber, bears N. and S.                                                                                                         |
| - 80.00 | The cor. of secs. 17, 18, 19 and 20.<br>Land mountainous.<br>Soil stony 3rd Rate.<br>Timber aspen and pine.<br>Mountainous land. 80.00 ins.                   |
|         | August 4, 1911.                                                                                                                                               |

August 5: At 7 A. M. I. m. b.  
I set off  $39^{\circ} 51'$  N. on the  
lat. arc;  $7^{\circ} 6'$  W. on the  
decl. arc and determine a  
true meridian with the  
solar at the cor. of secs.  
17, 18, 19 and 20.

Then I run

west, on a random line.

bet. secs. 18 and 19.

40.00 Set tank.  $\frac{1}{4}$  sec. cor.

77.35 Intersect west body of Twp.

# Subdivision of T. 11 S. R. 2 E. continued.

Chains

- At the cor. of secs. 13, 18, 19 and 24.  
Previously described. Thence I run  
Tos. 1, on a true line,  
bet. secs. 18 and 19.  
Descend, through heavy aspen  
and pine-timber.
- 3.30 Ravine, 800 ft. deep. Course N. W.  
begin steep ascent.
- 9.00 Leave timber bears N. W. and S. E.  
Enter dense oak and at times a.  
15.50 Top of ridge, bears N. W. and S. E.  
descend.
- 22.00 Enter heavy pine and  
scattering aspen timber,  
bears N. W. and S. E.
- 27.35 Ravine, 400 ft. deep, course N.  
ascend.
- Set a quartzite stone, 14x7x6 ins.  
10 ins. in the ground, for  $\frac{1}{4}$  sec.  
Cor. marked  $\frac{1}{4}$  S. 18, on the H.  $\frac{1}{4}$ ,  
on surfaces; from which  
A pine, 4 ins. diam., bears S. 65° E.  
38 lbs. dist. marked  $\frac{1}{4}$  S. 19, N. E. T.  
A pine, 5 ins. diam., bears H. 88° E.  
56 lbs. dist. marked  $\frac{1}{4}$  S. 18, N. E. T.
- 42.30 Top of spm. projects H.  
descend.
- 52.00 Spring branch, 1 ft. wide,  
Course N. E.
- 56.90 Spring branch, 1 ft. wide,  
Course N.
- 61.00 Spring branch, 1 ft. wide,  
Course N.
- Ascend.
- 77.35 The cor. of secs. 17, 18, 19 and 20.  
Land mountainous.  
Soil stony 3<sup>rd</sup> and 4<sup>th</sup>. Rate.  
Timber aspen and pine.  
Mountainous land 77.85 chs,

## Subdivision of T. 11 S. R. 2 C., Continue

| Chains |                                                                                                                                                                                                                                                                                      |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | It. 0° 3' W. bet. secs. 17 and 18<br>descend through heavy aspen<br>and pine timber.                                                                                                                                                                                                 |
| 11.00  | Head of Mona Canon, Canon<br>W. ascend.<br>Leave pine timber.                                                                                                                                                                                                                        |
| 20.30  | Top of ridge, bears It. W. and S. E.<br>Leave aspen timber bears<br>It. W. and S. E. descend.                                                                                                                                                                                        |
| 31.00  | Enter heavy aspen and pine<br>timber, bears E. and W.                                                                                                                                                                                                                                |
| 40.00  | Set a trachyte stone, 15x12x8 ins.<br>10 ins. in the ground, for 7 sec.<br>Cir., marked $\frac{1}{4}$ S. 18.00 W. 417 m. C. faces<br>from which<br>A pine, 15 ins. diam. bears It. 2° W.<br>69 lbs. dist. marked $\frac{1}{4}$ S. 18.13.7                                            |
|        | A pine, 8 ins. diam. bears S. 56.3.<br>86 lbs. dist. marked $\frac{1}{4}$ S. 17.93.7                                                                                                                                                                                                 |
| 42.50  | A pond of pure water, 2.00 chs.<br>Diameter, bears It. 1. 40.1 lbs.<br>Dist.                                                                                                                                                                                                         |
| 80.00  | Set a limestone 14x7x6 ins., 10<br>ins. in the ground, for 100<br>of secs. 7, 8, 17, and 18, marked<br>with 4 notches on the S.<br>and 5 notches on the E. edges.<br>from which<br>A pine, 14 ins. diam. bears It. 41.6° E.<br>33 lbs. dist. marked<br>T. 11 S. R. 2 C., S. 8. 13. 7 |
|        | An aspen, 10 ins. diam. bears<br>S. 68.30 E. 10 lbs. dist. marked<br>T. 11 S. R. 2 C., S. 17. 93. 7                                                                                                                                                                                  |
|        | An aspen, 10 ins. diam. bears<br>S. 33. 34. 19 lbs. dist. marked<br>T. 11 S. R. 2 C., S. 18. 93. 7                                                                                                                                                                                   |
|        | An aspen, 12 ins. diam. bears<br>It. 49. 34. 15 lbs. dist. marked<br>T. 11 S. R. 2 C., S. 7. 93. 7                                                                                                                                                                                   |

Sub-division of T. 11 S. R. 2 E., Continued.

Chains

This cor. is 800 ft. below the cor. of secs. 17, 18, 19 and 20.  
Lamb mountains.  
Soil stony 3<sup>rd</sup> Rate.  
Timber aspen and pine.  
Mountainous land. 80.00 chs.  
August 5. At this cor. I set  
off 17° 5' H. on the decl. arc:  
and at 8° 5' p. m., I am to  
observe the sun on the  
meridian, the resulting  
lat. is 39° 52' H..

- 8.89° 56' E. on a random line  
bet. secs. 8 and 17.
- 40.00 Set temp. & sec. cor.
- 80.00 Intersect H. and S. line, 9 lks. S.  
of the cor. of secs. 8, 9, 16 and 17.  
Thence I run  
west. on a true line,  
bet. secs. 8 and 17.  
Descending through dense oak  
and laurel brush.
- 12.00 Fork a Santquin Creek. 4 lks.  
width, pure water, 4 ins. deep  
in canon, 800 ft. deep. Course  
N. E. Ascend.
- 26.00 Enter heavy aspen timber,  
bears H. E. and S. W.
- 37.00 Top of ridge, bears H. E. and S. W.  
descend.
- 37.50 Ravine, 200 ft. deep. Course H. E.  
ascend.
- 40.00 Set a quartzite s. tone, 18x8x6 ins.  
12 ins. in the ground, for  $\frac{1}{2}$   
sec. cor. marked  $\frac{1}{2}$  S. on  
H. face and 17. on S. faces.  
from which

Subdivision of T. 11 S. R. 2 E. Continued.

| Chains |                                                                                                                                                       |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | On aspen. 24 ins. diam. bears S. 19° W.<br>14 lbs. dist. marked to S. 17. B. T.                                                                       |
|        | On aspen. 12 ins. diam. bears N. 14° E. 17.<br>lbs. dist. marked to S. 8. B. T.                                                                       |
| 44.00  | Top of spur. project H.<br>descend. enter scattering<br>fine timber.                                                                                  |
| 44.75  | Spring branch. 1 lb. wide.<br>in ravine, 300 ft. deep.<br>Course H. C. Ascend.                                                                        |
| 65.00  | Top of ridge. bears H. C. and S. W.<br>descend.                                                                                                       |
| 80.00  | The cor. of secs. 7, 8, 17 and 18.<br>Land mountainous.<br>Soil stony 3 <sup>rd</sup> Rate.<br>Timber ashen and fine.<br>Mountainous land. 80.00 hrs. |

The northern half of the west body of this Twp. is not surveyed for reasons previously given, and the line bet. of secs. 7 and 18 cannot be continued to the west body on account of high broken mountains, therefore I run

west. on a true line bet. secs. 7 and 18.

Entered through heavy aspen and fine timber.

10.00 Head of Sutherland's Cañon  
Course H. C. Ascend.

- 40.00 Set a Sandstone 16 x 10 x 6 ins.  
11 ins. in the ground. for  
the cor. marked to S. 7, on  
W. face and 18 on S. faces:  
1 dm which

Submission of T. 11 S., R. 2 E. Continued

Chains

An aspen, 4 ins. diam. bears N. 6° W.  
10 lbs. dist. marked 4. S. 7. B. F.

An aspen, 6 ins. diam., bears S. 22° E.  
14 lbs. dist. marked 4. S. 18. B. F.

Note: On account of high  
broken mountains I  
discontinue this line.

Land mountainous.

Soil stony 3<sup>rd</sup> Rate.

Timber aspen and pine.

Mountainous land and  
heavily-timbered. 40.00 chs.

August 5, 1901.

August 6: At 7 A. M. I. m.-t.

I set off 39° 52' H. on the  
lat. arc: 16° 50' H. on the  
decl. arc: and determine a  
true meridian with the  
Solar, at the cor. of secs.  
7, 8, 17 and 18.

Then I run

H. 0° 3' W. bet. secs. 7 and 8.

Descend through heavy  
aspen and pine timber.

44.00

Sutherland's Canon, 300 ft.  
deep. Course H. C. ascend.  
Leave timber bears E. and W.  
enter dense oak and laurel  
brush.

37.50

Top of spur, projects E. Descend,  
enter heavy pine timber,  
bears E. and W.

40.00

Set a limestone 10 x 12 x 8 ins.  
10 ins. in the ground, for  
4 sec. cor. marked 4. S. 7. on  
the W. face and 8. on E. face:  
from which

A pine, 12 ins. diam. bears

Subdivision of T. 11 S., R. 2 E. Continued

| Chains |                                                                                                                                                          |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | S. 42° E., 2 lks. dist. marked $\frac{1}{4}$ S. 8. B. T.                                                                                                 |
|        | A pine, 12 ins. diam. bears S. 85° W.<br>23 lks. dist. marked $\frac{1}{4}$ S. 7. B. T.                                                                  |
| 42.00  | Ravine, 500 ft. deep, Course C.<br>Begin steep ascent.                                                                                                   |
| 47.00  | Leave timber bears C. and W.<br>Enter dense <i>Antennaria</i> and<br>oak brush.                                                                          |
| 67.20  | Top of ridge, 1000 ft. above<br>the cor. of secs. 7, 8, 17 and 18.<br>Bears C. and W. Descend.                                                           |
|        | Enter heavy aspen and<br>pine timber.                                                                                                                    |
| -80.00 | Set a sandstone 18x18x6 ins.<br>12 ins. in the ground, for cor.<br>of secs. 5, 6, 7 and 8, marked<br>with 5 notches on S. and C.<br>edges:<br>from which |
|        | A pine, 3 ins. diam. bears<br>W. 68° 30' E., 29 lks. dist. marked<br>T. 11 S., R. 2 E., S. 5. B. T.                                                      |
|        | A pine, 3 ins. diam. bears S. 28° 30' E.<br>31 lks. dist. marked<br>T. 11 S., R. 2 E., S. 8. B. T.                                                       |
|        | A pine, 3 ins. diam. bears S. 23° W.<br>15 lks. dist. marked<br>T. 11 S., R. 2 E., S. 7. B. T.                                                           |
|        | A pine, 3 ins. diam. bears W. 78° W.<br>19 lks. dist. marked<br>T. 11 S., R. 2 E., S. 6. B. T.                                                           |
|        | Land mountainous<br>Soil stony 3 $\frac{1}{2}$ Rate.<br>Timber aspen and pine.<br>Mountainous land. 80.00 chs.                                           |

Subdivision of T. 11 S., R. 2 E. Continued.

Chains

- East, on a random line,  
bet. secs. 5 and 8.  
Set. temp.  $\frac{1}{4}$  sec. cor.  
Intersect H. and S. line,  
at the cor. of secs. 4, 5, 8 and 9.  
Thence I run  
West on a true line,  
bet. secs. 5 and 8.  
Ascend through dense oak  
and laurel brush, and  
scattering pine timber.  
3.25 Top of rocky spur, projects -  
H. W. begin abrupt descent.  
Leave timber.  
7.60 Sutherland's Creek, 4 lks. wide,  
pure water, 4 ins. deep, in  
Cañon 800 ft. deep. Course H. E.  
Ascend.  
28.00 Top of spur, projects S. descend.  
Leave, 50 ft. deep, course S.  
Ascend.  
40.00 Top of spur, projects S. descend.  
Set a quartzite stone, 16x8x7 ins.  
11 ins. in the ground, for  $\frac{1}{4}$   
sec. cor., marked  $\frac{1}{4}$  S. 5 on H. and 8  
on S. faces; and raise a mound  
of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high.  
H. of cor.  
Pits impracticable.  
44.60 Leave, 50 ft. deep, course S. E.  
Ascend, enter heavy aspen  
timber, bears H. W. and S. E.  
52.00 Top of ridge bears H. and S.  
800 ft. above, bottom of  
Cañon. descend.  
60.00 Head of ravine. Course H. E.  
Ascend.  
76.80 Top of spur, projects H. E.  
Leave aspen, enter heavy

Subdivision of T. 11 S. R. 2 C. Continue

| Chains |                                                                                                                                                                                                                                                                                                                                                             |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| -80.00 | The cor. of secs. 5, 6, 7 and 8.<br>Land mountainous.<br>Soil stony, 3 <sup>rd</sup> and 4 <sup>th</sup> Rate.<br>Timber aspen and pine.<br>Mountainous land. 80.00 chs.<br>Augus 1-6: At this cor. I<br>set off 16° 45' H. on the<br>decl. arc: and at 0° 6' fr. m.<br>I. m. t., observe the sun<br>on the meridian, the<br>resulting lat. is 39° 5' 3" H. |

The northern half of the west body of this township is not surveyed for reasons previously given, and the line bet. secs. 6 and 7, cannot be continued to the east body, on account of high, broken and rocky mountains, therefore I run west, on a true line, bet. secs. 6 and 7.  
Descend over stony land, through heavy young pine and dead and fallen timber.

Bottom of ravine, 300 ft. deep.  
Course N. E.

Leave heavy timber bears.  
N. E. and S. W.

Begin steep ascent over rocky and broken land, through dense laurel and oak brush and scattering pine timber.

-100.00 Set a sandstone 16 x 10 x 6 ins.  
11 ins. in the ground, loc. 4

## Subdivision of T. 11 S. R. 2 C. Continued.

Chains

sec. cor. marked  $\frac{1}{4}$  S. E. on H.  $\frac{2}{3}$  Y.  
on S. faces; And raise a mound  
of stone, 2 ft. base, 1 $\frac{1}{2}$  ft. high.  
 $\frac{1}{2}$  of cor. will be impracticable.

On account of high, rocky and  
broken mountains I discontinue  
this line.

Land mountainous.

Soil stony 3<sup>rd</sup> and 4<sup>th</sup> Rate  
Timber, aspen and pine.

Mountainous land 4000 Chs.

H. 0° 3' Gr. Set sec. 5 and 6  
descend through heavy young  
pine and old and fallen timber.  
Gaining, 350 ft. deep. Course H. C.  
Enter heavy aspen and pine timber  
Ascend.

18.00 Leave timber, bears E. and W.  
Enter dense aspens.

24.70 Top of ridge, bears H. E. and S. W.  
Enter heavy aspen and pine  
timber Ascend.

26.00 Enter burnt timber, bears E. and W.  
Leave burnt timber, bears E. and W.

33.00 Leave, 50 ft. deep Course H. C.  
Ascend.

40.00 Set a limestone 16 x 12 x 8 ins., 11  
ins. in the ground, for  $\frac{1}{4}$  sec.  
Cor. marked  $\frac{1}{4}$  S. E. on H.  $\frac{2}{3}$  Y. on E. faces;  
from which

An aspen, 5 ins. diam. bears H. 5° E.  
27 lbs. dist. marked  $\frac{1}{4}$  S. 5. 93. T.

An aspen, 5 ins. diam. bears H. 7° W.  
31 lbs. dist. marked  $\frac{1}{4}$  S. E. 93. T.

Top of rocky spur, projects H. C.  
Leave heavy timber bears H. C.

41.70

Subdivision of T. 11 S. R. 2 E. Concluded.

| Chains  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| - 56.00 | <p>In intersect. 8<sup>nd</sup> S. standard<br/>     Parallel South, 8.50 chs. E. of<br/>     the Standard 1/4 sec. cor. of<br/>     Sec. 32. T. 10 S. R. 2 E.<br/>     Which is marked on a<br/>     boulder, 3x3x2 1/2 ft. above<br/>     the ground, marked and<br/>     witnessed as described by<br/>     the Surveyor General.<br/>     Set a limestone 24x10x8 ins.<br/>     18 ins. in the ground, for<br/>     Closing cor. of secs. 5 and 6.<br/>     marked C.C. on S. face.<br/>     with 5 grooves on E. and<br/>     1 groove on N. faces: and<br/>     raise a mound of stone.<br/>     2 ft. base, 1 1/2 ft. high. S. of<br/>     cor.<br/>     Pits impracticable<br/>     Land mountainous.<br/>     Soil. Stony 3<sup>rd</sup> and 4<sup>th</sup> Rate.<br/>     Timber. Aspen and pine.<br/>     Mountainous land, 56.00 chs.<br/>     August 1-6, 1901.</p> |

General Description

This township is entirely mountainous. And the soil is stony throughout, ranging from 3<sup>rd</sup> to 4<sup>th</sup> rate. It is situated on the north eastern slope of Mount Nebo.

Fancy aspen and pine timber is found along the divide between Nebo and

General Description of T. 11 S. R. & C. Concluded.

Santquin Canons, while the rest of the township is generally covered with a rank growth of undergrowth.

The township is well watered by E. and W. Salt Creeks in the South west, Nebo Creek with its forks, in the E. and Summit with its tributaries in the W. W. There are no indications of mineral in this township.

There are no settlers in this township.

Wilton C. Price, Charles S. Price and Rufus Lewis are not located in this township, and I cannot say where they are located.

Hubert D. Page, U.S. Deputy Surveyor  
Compass man for James M. Lentz,  
U.S. Deputy Surveyor.

There being no notary public or other officer authorized to administer oaths within reasonable distance at the beginning or ending of the survey, in order to save time and expense I administer the preliminary and final oaths myself.

Hubert D. Page,  
U.S. Deputy Surveyor.

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260-761  
B-AAC

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## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, U.S. Deputy Surveyor  
Comptroller for Government, United States Deputy Surveyor, to assist in running, measuring, and  
marking the lines and corners described in the foregoing field notes of the survey of Subdivisions of  
M. S. R. & E. of the Salt Lake and Meridian State of Utah.  
showing the respective capacities in which they acted:

William O. Halquist, Chainman.  
Peter Meyer, Chainman.  
Varnick Hansen, Moundman.  
Cleon Jackson, Moundman.  
Varnick Hansen, Axman.  
Cleon Jackson, Axman.  
Jay Morrison, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page U.S. Deputy Surveyor  
Comptroller for Government, United States Deputy Surveyor, in surveying all  
those parts or portions of the Subdivision of 9 1/2 S. R. & E.

Salt Lake base and meridian, I take of Utah, which are represented  
the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
is been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor  
general for Utah.

William O. Halquist, Chainman.  
Peter Meyer, Chainman.  
Varnick Hansen, Moundman.  
Cleon Jackson, Moundman.  
Varnick Hansen, Axman.  
Cleon Jackson, Axman.  
Jay Morrison, Flagman.

scribed and sworn to before me this 6  
day of August, 1891 }

Hubert D. Page  
U.S. Deputy Surveyor

SEAL

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D. Page, Comptroller for James M. Dent, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from the United States Surveyor General for the District of Idaho, bearing date of the 14<sup>th</sup> day of March 1900, 1891, I have well, faithfully, and truly, in my own proper person and in strict conformity with the instructions furnished by the United States Surveyor General for the District of Idaho, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the subdivision boundaries of Township 11 South Range 2 East, of the State of Idaho, in the State of Idaho, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the District of Idaho, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

*Hubert D. Page U.S. Deputy Surveyor  
Comptroller for James M. Dent*  
United States Deputy Surveyor.

Subscribed by said *Hubert D. Page*, and sworn to before me }  
this 18<sup>th</sup> day of September 1901, 1891 }

SEAL  
00000

*Edward H. Anderson  
U.S. Surveyor General for Idaho*

## APPROVAL.

## OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Valhalla Lake, Idaho, June 14, 1902, No. 1*  
The foregoing field notes of the survey of the subdivisional boundaries of Township 11 South Range 2 East of the Lake Valley Road & Division Line, Idaho.

executed by *Hubert D. Page Comptroller for James M. Dent*, under his contract No. 238, dated March 14, 1900, 1891, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

*Edward H. Anderson  
United States Surveyor General*

I certify that the foregoing transcript of the field notes of the above-described surveys in the above-described boundaries, has been correctly copied from the original notes on file in this office.

United States Surveyor General

Filed Wedd. 1901.

4-679.

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BOOK A-281

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# FIELD NOTES

OF THE SURVEY OF THE

*North  
Boundary of  
Township No. 25 South  
Range no. 25 East*

*of the Salt Lake base Meridian,  
In the state of Utah.*

AS SURVEYED BY

*Hubert D. Page, U.S. Deputy  
Surveyor, Comptroller of James McEntee, United States Deputy Surveyor,*

Under his Contract No. 738, dated March 14<sup>th</sup> 1900 1899

Survey commenced Oct. 1<sup>st</sup> 1901, 1899

Survey completed Oct. 2<sup>nd</sup> 1901, 1899

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*H. 65.37<sup>1</sup> 5<sup>2</sup>  
Low 14.10<sup>1</sup> 7<sup>4</sup>*

## NAMES AND DUTIES OF ASSISTANTS.

Peter Meyer chairman

Hale Cherry "

Joseph Rasmussen mound man

Ken Lyman airman

John Baker flag man

For preliminary affidavits see book M Jr 24 S P 24 E

BOOK A-281

INDEX DIAGRAM.

*Township* \_\_\_\_\_, *Range* \_\_\_\_\_

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 6  | 5  | 4  | 3  | 2  | 1  |
| 7  | 8  | 9  | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 20 | 20 | 28 | 27 | 26 | 25 |
| 21 | 22 | 23 | 24 | 25 | 26 |

*Meanders Page* \_\_\_\_\_

## PRELIMINARY OATHS OF ASSISTANTS.

WE, ..... and .....  
do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey.

....., Chainman

....., Chainman

Subscribed and sworn to before me this ..... }  
day of ....., 189 }



WE, ..... and .....  
do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey.

....., Moundma.

....., Moundma.

Subscribed and sworn to before me this ..... }  
day of ....., 189 }



WE, ..... and .....  
do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey.

....., Axma.

....., Axma.

Subscribed and sworn to before me this ..... }  
day of ....., 189 }



I, ..... do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of .....

....., Flagma.

Subscribed and sworn to before me this ..... }  
day of ....., 189 }



North boundary of T. 25 S., R. 25 E.

Survey Commenced,  
Oct. 1<sup>st</sup>, 1901.  
And executed with the instru-  
ment described  
in book A of this survey.  
To test the solar apparatus  
by comparing its indications,  
resulting from solar observa-  
tions made during a. m. and  
p. m. hours, with a true  
meridian determined by  
observation on Polaris, I  
proceed as follows.

At the cor. of T. 24<sup>and</sup> 25  
S., R. 24<sup>and</sup> 25 E.

Previously described  
Lat.  $38^{\circ}40'49''$ N. Long.  $109^{\circ}14'09''$ W.  
At 4 p. m., l. m. t., I set off  
 $38^{\circ}41'$ N. on lat. arc.  $3^{\circ}10'5''$   
on decl. arc; and determine  
a true meridian; with the solar  
and mark a point thereof on  
a stone set firmly in the  
ground 5.00 chs. N. of the cor.

Oct. 2<sup>nd</sup>, 1901.

At 8 h. 40' m. a. m. I observe  
Polaris at Upper Culmination,  
in accordance with Manual  
of Instructions, and mark the  
point on line thus determined  
on the rock already set 5 chs.  
N. of my station.

This mark falls .03 ins. west of  
the true meridian established by  
the solar.

At 8 a. m., l. m. t., I set off  $38^{\circ}41'$

## North bdy. of T. 25 S., R. 25 E. continued.

N. or lat. arc:  $3^{\circ}23'5''$  or  
decl. arc; and mark a point in  
the true meridian determined with  
the solar, by a cross on the stone  
already set,

This mark falls  $0.3$  ins.  $\frac{1}{2}$  est. of the  
true meridian, established by  
the Polaris observation.

The solar apparatus, by p.m.<sup>and</sup>  
a.m. observations, defines position  
for true meridian established  
about  $0'16''$  E.  $\frac{1}{2}$  N. of the true  
meridian established by the  
Polaris observation. Therefore, I  
conclude the adjustments of  
the instrument are satisfactory.

The magnetic bearing of the  
true meridian at 8.30 a.m.  
is N.  $15^{\circ}10'7''$ .

The angle thus determined  
reduced by the table, p. 100,  
gives the mean decl.  $15^{\circ}1'6''$ .

Note:

Having spent a day ex-  
amining the country in this  
T.P. 25 S., R. 25 E.

I find the land beyond a  
strip one mile wide East  
of the West bdy. totally value-  
less and it would be im-  
possible on account of  
broken sand stone ledges  
and perpendicular cliffs,  
to survey all of the land  
mentioned in this T.P.

Prescott T. Stevens by his  
application desired to cover  
the land in his claim in  
sec. 6.

North Edy. of 945 S. R. 156 continued.

chains.

Therefore, I survey the course & position as follows:

From the cor. of 945 S. R. 156.  
R. 74 S. 31 E.

Previously described.  
East along N. Edy. of 945 S.  
bet. secy 6 & 31.

Ascend gradually over  
cultivated land.

|        |                                                                                                                                                                   |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 44.00  | Road,<br>bears N. 45° E.                                                                                                                                          |
| 44.0   | Wire fence, bears N. 45° E.                                                                                                                                       |
| 144.10 | Wire fence, bears N. 45° E.                                                                                                                                       |
|        | Leave cultivated land, enter<br>dense artemesia.                                                                                                                  |
| 240.00 | Enter heavy cedar & pinion<br>timber, bears N. 45° E.                                                                                                             |
| 280.0  | Dry Ravine 40ft. deep. Course<br>N. W. begin steep ascent<br>over broken, sand stone edge.                                                                        |
| 33.00  | Ridge, bears N. 45° E.                                                                                                                                            |
| 39.147 | Allowing for convergence<br>of 7 miles on the course<br>of the first 6 edys.                                                                                      |
|        | As shown by attachment<br>Set a sand stone 24 x 16 x 2 ins.<br>18 ins in mound of stone &<br>earth, for 1/4 secy. cor.<br>marked 144 S. 31 on N. corner<br>faces. |
|        | From which a cedar 6 ins<br>in diam. bears N. 50° E. 19 ft. s.<br>dist. marked 144 S. 31 B. P.                                                                    |
|        | A pinion 8 ins. in diam.<br>bears S. 48° 7'. 19 ft. s. dist.<br>marked 144 S. 31 B. P.                                                                            |
| 40.00  | Ravine 20 off deep.<br>Course N. W.<br>Leave heavy timber.                                                                                                        |

North bdy. of T. 25 S., R. 25 E. concluded.

Chains  
79.47

Dalles. Solid sand stone ledge  
bearing N. 10° E.

15.71  
14.10

Marked cross on ledge.  
with 5 grooves on E and 1  
groove on W. sides.

Raised a mound of stone 2 ft.  
base, 1 1/2 ft. high off of lot.

Pits impracticable.

Land broken  
soil, stony <sup>2<sup>nd</sup> and 4<sup>th</sup> rates.</sup>

Timber cedar and pinion

Mountainous <sup>and dense growth</sup> 65.37 chs.

Impossible to continue  
line further East.

Oct. 2<sup>nd</sup>, 901.

For general description see  
Subdivision of this township.

Hubert D. Page, U.S.

Deputy Surveyor & Compassman

James M. Leiby, U.S.

Deputy Surveyor.

There being no Notary public or  
other officer authorized to administer  
oaths, within reasonable distance,  
at the beginning or ending of  
the survey; In order to save  
time and expense, I administered  
the preliminary and final oaths  
myself.

Hubert D. Page  
U.S. Deputy Surveyor.

DODGE R-201

FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, <sup>Surveyor</sup> Compass man  
James McLevy, United States Deputy Surveyor, to assist in running, measuring, and  
working the lines and corners described in the foregoing field notes of the survey of 1st. day of 924 S.  
46° N. bdy. of 8.25 S. R. 25 E. of the Salt Lake base and meridian,  
the state of Utah. <sup>1st. day of 924 S.</sup>  
wing the respective capacities in which they acted:

Peter Meyer, Chainman.  
Hale Cherry, Chainman.  
Joseph Rasmussen, Moundman.  
Vern Lyman, Moundman.  
Arman.  
Axman.  
John Baker, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, <sup>Surveyor</sup> Compass man for  
James McLevy, United States Deputy Surveyor, in surveying all  
se parts or portions of the 1st. day of 924 S. R. 24 E. 46° N. bdy.  
of 9.25 S. R. 25 E. of the

base and meridian, in the state of Utah, which are represented  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
monuments established, according to the instructions furnished by the United States Surveyor  
General for Utah.

Peter Meyer, Chainman.  
Gay Morrison, Chainman.  
Joseph Rasmussen, Moundman.  
Vern Lyman, Axman.  
John Baker, Axman.  
John Baker, Flagman.

scribed and sworn to before me this 2<sup>nd</sup> day of October, 1881. }

Hubert D. Page,  
U.S. Deputy Surveyor



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Hubert D. Page, U.S. Deputy Surveyor for James M. Dent, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from James M. Dent, United States Surveyor General for the District of Columbia, bearing date of the 14<sup>th</sup> day of December, 1891, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for the District of Columbia, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the North Boundary of the District of Columbia and the South Boundary of the District of Columbia.

Base and meridian, in the State of District of Columbia, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for the District of Columbia, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Hubert D. Page, U.S. Deputy Surveyor, Congress man for James M. Dent,  
United States Deputy Surveyor

Subscribed by said Hubert D. Page, and sworn to before me }  
this 14<sup>th</sup> day of December, 1901. }

000000  
0 SLAL 0  
000000

Edward M. Gandy,  
U.S. Surveyor General for District of Columbia

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL.

Salt Lake City, January 14, 1902. No. 25  
The foregoing field notes of the survey of the North Boundary of the District of Columbia and the South Boundary of the District of Columbia, Base and Meridian, District of Columbia,

executed by Hubert D. Page, U.S. Deputy Surveyor, Congress man for James M. Dent, United States Deputy Surveyor, under his contract No. 638, dated December 14, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward M. Gandy,  
United States Surveyor Gen.

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor Ge.

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BOOK A-281

## FIELD NOTES

OF THE SURVEY OF THE

*Subdivision  
of  
Township No 25 South  
Range No. 25 East.*

*of the Salt Lake base and Meridian,  
In the state of Utah*

*Habers D. Page U.S. Deputy  
Surveyor, Commissioner for James McLentz United States Deputy Surveyor,  
under his Contract No. 238, dated March 14<sup>th</sup>, 1890*

*Survey commenced October 3<sup>rd</sup> 1901, 189*

*Survey completed October 14<sup>th</sup>, 1901, 189*

*high. 2.79.73 ✓*

## NAMES AND DUTIES OF ASSISTANTS.

Peter Meyers, Chairman

Hale Cherry "

Joseph Rasmussen Groundman

Yew Lyman Alman

John Baker Flagman

BOOK A-281

INDEX DIAGRAM.

*Township \_\_\_\_\_, Range \_\_\_\_\_*

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| 7  | 8  | 9  | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

*Meanders Page \_\_\_\_\_*

BUUN

PRELIMINARY OATHS OF ASSISTANTS.

WE, Peter Meyer

and Hale Cherry

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of Subdivision of 9<sup>th</sup> S., R. 25<sup>E</sup>, of the Salt Lake base <sup>and</sup> meridian state of Utah.

Peter Meyer, Chainman.

Hale Cherry, Chainman.

Subscribed and sworn to before me this 3<sup>rd</sup>  
day of October, 1801 }



WE, Joseph Rasmussen

Hubert D. Page,  
U.S. Deputy Surv.

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given <sup>me</sup> to the best of <sup>our</sup> skill and ability, in the survey of Subdivision of 9<sup>th</sup> S., R. 25<sup>E</sup>, of the Salt Lake base <sup>and</sup> meridian, state of Utah.

Joseph Rasmussen, Moundman

Subscribed and sworn to before me this 3<sup>rd</sup>  
day of October, 1801 }



WE, Vern Lyman

Hubert D. Page,  
U.S. Deputy Surv.

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given <sup>me</sup> to the best of <sup>our</sup> skill and ability, in the survey of Subdivision of 9<sup>th</sup> S., R. 25<sup>E</sup>, of the Salt Lake base <sup>and</sup> meridian in the state of Utah.

Vern Lyman, Axma.

Subscribed and sworn to before me this 3<sup>rd</sup>  
day of October, 1801 }



I, John Baker

Hubert D. Page,  
U.S. Deputy Surv.

do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Subdivision of 9<sup>th</sup> S., R. 25<sup>E</sup>, of the Salt Lake base <sup>and</sup> meridian in the state of Utah.

John Baker, Flagma.

Subscribed and sworn to before me this 3<sup>rd</sup>  
day of October, 1801 }



Hubert D. Page,  
U.S. Deputy Surv.

# Subdivision of R. 25 S., R. 25 E.

Survey Commenced,  
Oct. 3<sup>rd</sup>, 1901.  
And executed with the instru-  
ment described,  
in book A. of this survey.

I know the instrument to  
be in adjustment from  
recent test, made Oct. 7<sup>th</sup>  
and 3<sup>rd</sup> at the cor. of R. 24<sup>th</sup> S.  
R. 24<sup>th</sup> E.,  
and recorded in book Q  
of this survey.

Oct. 3<sup>rd</sup>, 1901.

At 2 p.m., l. m. t., I  
set off 38° 39' N. on lat. arc;  
3° 54' S. on decl. arc; and  
determine a true meridian  
with the solar, at the cor.  
of secs. 7, 8, 17<sup>th</sup> & 18.

Which is. Sand stone 10x10x6  
ins. above ground,  
marked as described by the  
Surveyor General.

N. 0° 3' W.

bet. secs. 7<sup>th</sup> & 8.

Over broken sand stone  
ledges and boulders, through  
scattering cedar and pinon  
along the foot of broken  
hills sloping N.W.

Set a sand stone 15x10x4  
ins. 10 ins. in the ground  
for the sec. cor. marker 8<sup>th</sup>/<sub>4</sub>  
S. 7 on N. 8 on E. faces.

Raised a mound of stone  
2 ft. base, 1<sup>1</sup>/<sub>2</sub> ft. high N.  
of cor.

Pits impracticable.

40.00

282

Subdivision of 9.25 S., R. 25 E. continued.

Chains

51.00 Enter heavy timber, bears  
N. 27°<sup>W</sup> 1.6 S.E.

- 80.00 Set a sandstone 22x12x4 ins.  
16 ins. in the ground and mound  
of stone. for cot. of sec. 5, 6, 7 and  
8 marked with 5 notches on  
the S. and E. edges.

From which a cedar 12 ins. in  
diam. bears N. 38° E. 25 lbs. dist.  
marked 9.25 S., R. 25 E. S. 5 B.G.

A pinon 5 ins. in diam. bears  
S. 25° E. 32 lbs. dist. marked 9.25 S.,  
R. 25 E. S. 8 B.G.

A pinon 6 ins. in diam. bears  
S. 16° W. 15 lbs. dist. marked 9.25 S.,  
R. 25 E. S. 9 B.G.

A cedar 5 ins. in diam. bears  
N. 42° W. 65 lbs. dist. marked 9.25 S.,  
R. 25 E. S. 6 B.G.

Land, broken

Soil, stony 4<sup>th</sup> rate.

Timber Cedar and pinon.

Heavy timber and

mountainous land 8.00 chs.

Oct. 3<sup>rd</sup> 1901.

Oct. 4<sup>th</sup> 1901.

At 8 a.m. l.m.t., I  
set off 38°40' N. on lat. arc:  
4°12' 5" on decl. arc; and de-  
termine a true meridian  
with the solar, at the cot.  
of sec. 7, 8, 5 <sup>and</sup> 6.

Then ce. I run

S. 89°54' 21" on a random line  
bet. sec. 6 <sup>and</sup> 7.

4000 set temp. 1/4 sec. cot.

79.58 Intersect N. bdy. of T.P. S 17 lbs. from  
cot. of sec. 6 <sup>and</sup> 7.

Subdivision of S. 25 S., R. 25 E. continued.

|         |                                                                                                                                                                             |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains. |                                                                                                                                                                             |
|         | Thence down<br>S. 89° 59' E., on a true line<br>bet. secs. 6 and 7.<br>Descending through dense sage<br>brush.                                                              |
| 2.00    | Irrigation ditch course N. W.<br>Dry wash, course N. W. diam.<br>Enter heavy cedar and pinon<br>timber, bears N. <sup>and</sup> S.                                          |
| 3.60    | Point of spur, projects N. W.<br>Set a sandstone 12 x 12 x 6 ins. 8<br>ins. in the ground, for $\frac{1}{4}$ sec.<br>Cor. marked $\frac{1}{4}$ S. 6. on N. 7 on S.<br>face. |
| 7.300   | Brown rock which a cedar 5 ins. in<br>diam. bears N. 89° W. 19 lbs. dist.<br>marked $\frac{1}{4}$ S. 6. B. S.                                                               |
| 39.58   | A pinon 8 ins. in diam.<br>Bears S. 57° W. 13 lbs. dist.<br>marked $\frac{1}{4}$ S. 7. B. S.                                                                                |
| 45.50   | Ravine 100 ft. deep. Course N. W.<br>Ascend over broken sand-<br>stone ledges and boulders                                                                                  |
| 79.58   | The cor. of secs. 5, 6, 7 and 8.<br>Sand broken.<br>Soil, stones. 40 pds.<br>Timber, cedar and pinon<br>Dense, standing round <sup>and</sup> heavy<br>timber 79.58 Chs.     |

N. 0° 03' W.

On a random line  
bet. secs 5 and 6.

Set temp.  $\frac{1}{4}$  sec. cor.

Intersection N. bdy. of S. P.  
3 lbs. C. of the cor. of secs.  
5, 6, 31 and 32.

Previously described.

Subdivision of 9.25 S., R. 25 E. concluded

|         |                                                                                                                                                                                                               |
|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains. | From I spur<br>S. 0° 4' E. on a true line<br>bet. secs. 5 <sup>2nd</sup> & 6.                                                                                                                                 |
| 150     | Descending over broken sand<br>stone ledges and boulders, through<br>cedar and pinon timber.<br>Ravine 200ft. deep. course<br>N. ascnd.                                                                       |
| 2900    | Spur projects N. W.                                                                                                                                                                                           |
| 3850    | Ravine 200ft. deep. course<br>N. W.                                                                                                                                                                           |
| 4015    | Dallson Sandstone bouldered 6x6x<br>3 ft. above ground, for 1/4 sec. col.<br>marked 1/4 56. on sp. 50° W. E. face.<br>From which a cedar 10 ins. in<br>diam. bears 14° E. 25 lbs. dist.<br>marked 1/4 55 B.T. |
| 4700    | A cedar 8 ins. in diam. bears<br>123° N. 20 lbs. dist. marked 1/4 56 B.T.<br>spur, projects N. descend.                                                                                                       |
| 7500    | Ravine 400ft. deep.<br>course N. W. ascnd.                                                                                                                                                                    |
| 8015    | The col. of secs. 5, 6, 7 & 8<br>Land, broken<br>Soil, stony 4 <sup>th</sup> rate<br>Timber, cedar and pinon<br>Heavily timbered 3 <sup>rd</sup><br>mountainous land. 8015 chs.                               |

Oct. 4th 1901.

### General Description

The land in this portion  
of the township is broken  
in the East, forming the  
foot of breaks leading to  
the river rock, and is made  
up of broken sandstone  
ledges, covered with a dense

P. 25 S. R. 256.

growth of scrubby Cedar  
and piñon timber.

A small portion of the  
land along the creek bed, is  
good agricultural land, and  
is covered by the claim  
of Prescott P. Stevens, whose  
house, corrals, fences and other  
improvements incident to ranching  
are valued at about \$5,000—  
all in the N. N.  $\frac{1}{4}$  of sec. 6.

There is no indication  
of mineral in this portion  
of the Tp.

Hubert D. Page, U.S.  
Deputy Surveyor  
Compassioner for  
James M. Lentz, U.S.  
Deputy Surveyor.

There being no Notary public or  
other officer authorized to ad-  
minister oaths, within reason-  
able distance, at the beginning  
or ending of the survey, in  
order to save time and expense,  
I administer the preliminary  
and final oaths my self.

Hubert D. Page  
U.S. Deputy Surveyor.

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**PAGE**

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FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

A list of the names of the individuals employed by Hubert D. Page, Deputy Surveyor, Compassman, James M. Lentz, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivision 1975 S., R. 25 E. of the Salt Lake base meridian, in the state of Utah, showing the respective capacities in which they acted:

Peter Meyer, Chainman.  
Hale Cherry, Chainman.  
Joseph Rasmussen, Moundman.  
Vern Lyman, Axman.  
John Baker, Flagman.

FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Hubert D. Page, Deputy Surveyor, Compassman, James M. Lentz, United States Deputy Surveyor, in surveying all parts or portions of the Subdivision of T. 35 S., R. 25 E.

of the Salt Lake base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Peter Meyer, Chainman.  
Hale Cherry, Chainman.  
Joseph Rasmussen, Moundman.  
Vern Lyman, Axman.  
John Baker, Flagman.

scribed and sworn to before me this 4th  
day of October, 1801 }

Hubert D. Page,  
U.S. Deputy Surveyor

SEAL

## FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Herbert D. Page, U.S. Deputy Surveyor, Salt Lake City, 1892, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Jacob C. Hall, United States Surveyor General for The District of Colby, bearing date of the 14<sup>th</sup> day of March 1902, 1892, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for The District of Colby, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of The Subdivision lines of Jp. 255, R. 25 E.

Base and meridian, in the State of Colby, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for The District of Colby, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Herbert D. Page, U.S. Deputy Surveyor Compass made for James M. Fentz,  
United States Surveyor.

Subscribed by said Herbert D. Page, and sworn to before me }  
 this 10<sup>th</sup> day of December 1902, 1892 }

SEAL  
DOCCDO

Edward H. Anderson  
U.S. Surveyor General for Colby

## APPROVAL.

## OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Colby, June 14, 1902 1892  
The foregoing field notes of the survey of The Subdivision lines of Jp. 255, R. 25 E., of the Salt Lake Base & Meridian, Colby

executed by Herbert D. Page, U.S. Deputy Surveyor, Salt Lake City, 1892, under his contract No. 1238, dated March 14, 1902, 1892, having critically examined, and the necessary corrections and explanations made, the said field notes, and the surveys they describe, are hereby approved.

Edward H. Anderson  
United States Surveyor Gen...

I certify that the foregoing transcript of the field notes of the above-described surveys in Colby, 1892, has been correctly copied from the original notes on file in this office.

United States Surveyor Gen...

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Surv. Sept. 17, 1901. 0.195

4-679.

A.

291

BOOK A-281

# FIELD NOTES

OF THE SURVEY OF THE

Federal Subdivisions

7

Ship No. 13 S. Range No. 10 E.

of the Salt Lake Base Line, Meridian,  
State of Utah.

AS SURVEYED BY

Augustus D. Farnor, United States Deputy Surveyor,

under his Contract No. 246, dated May 4<sup>th</sup>, 1901, 189

Survey commenced June 28<sup>th</sup>, 1901, 189

Survey completed August 3<sup>rd</sup>, 1901, 189

-10-

Running Sats - high 6-18-59 ✓  
" " low 22-25 ✓

6-40 84

## NAMES AND DUTIES OF ASSISTANTS.

James Jones, Chairman

Frank Branch

W. T. Fenn Moundman

Fred C. Fenn "

Fred C. Fenn Runner

John Allard "

James P. Allard Flagman

BOOK A-281

INDEX DIAGRAM.

*Township....., Range.....*

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| 19 | 20 | 21 | 22 | 23 | 24 |
| 20 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

*Meanders Page.....*

## PRELIMINARY OATHS OF ASSISTANTS.

WE, James Jones and Frank Branch

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

Fractional Subdivisions of T13 S. R10 E. Salt Lake Meridian

James Jones, Chainman  
Frank Branch, Chainman

Subscribed and sworn to before me this 28

day of June, 1891 }  
[]

WE, Will Henn

W.H. McDonald  
County Clerk  
Recorder  
Hord C. Henn

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

Fractional Subdivisions of T13 S. R10 E. Salt Lake Meridian

Will Ferree

, Moundman

Fred C. Ferree

, Moundman

Subscribed and sworn to before me this 28

day of June, 1891 }  
[]

WE, Hord C. Henn

W.H. McDonald  
County Clerk  
Recorder  
John Allard

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

Fractional Subdivisions of T13 S. R10 E. Salt Lake Meridian

Fred C. Ferree

, Axman

John Allard

, Axman

Subscribed and sworn to before me this 28

day of June, 1891 }  
[]

I, James A. Allard

W.H. McDonald

County Clerk  
Recorder

James A. Allard

, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the

survey of Fractional Subdivisions of T13 S. R10 E. Salt Lake Meridian

James A. Allard

, Flagman

Subscribed and sworn to before me this 28

day of June, 1891 }  
[]

W.H. McDonald  
County Clerk  
Recorder

## Resurvey

Cut ditches, T. 13 N., R. 10 E.

Chs.

Resurvey commenced June 28<sup>th</sup>, 1901, and executed with a T. & L. by C. E. Gurley light mountain transit with solar attachment: the horizontal limb having two double verniers placed opposite to each other and reading to single minutes of arc, this being also the least common of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the <sup>true</sup> meridian at Salt Lake City; found correct, and approved by the Surveyor General for Utah, June 11<sup>th</sup>, 1901.

Upon my arrival at my field of operations, I examine the adjustments of the transit, and correct lens and collimation errors. To test the accuracy of the solar apparatus, I proceed as follows:-

June 28<sup>th</sup>, 1901, at my camp near corner to sections 13, 18, 19, and 24 on W. 73<sup>d</sup> boundary of T. 3, which is in Lat.  $39^{\circ}42'52''$  N. by longitude  $110^{\circ}53'25''$  W. of Greenwich, I set off  $39^{\circ}41'$   $\frac{1}{2}$  on a celestial arc,  $2^{\circ}18'$  N. on declination arc, for 2.20 P.M., local mean time to determine the true meridian with my solar, and mark with a pencil the point on a stake drawn 5 ches N. of my station. At 12.50' local mean time, on the night succeeding, I observe Polaris on its Easter elongation, "as it rises on the tangent," and draw a stake 5 chs. N. of station, whereon I mark the line thus determined. At 7 A.M., local mean time, June 29<sup>th</sup>, 1901, I turn the azimuth of Polaris  $1^{\circ}25'$  to the West, mark the true meridian with a pencil on the stake set by solar observation, and find the true stellar meridian to fall  $0.4$  inch East of the line determined by the solar. At 7.00 A.M.

## Survey

at 16° 13' N. Lat. 10° E.

ch.

Local mean time, I set off  $39^{\circ} 41' W.$  on latitude arc, and  $23^{\circ} 17' N.$  on declination arc and mark point of solar meridian with a pencil on same stake as above, and find it to fall 0.4 inch East of the true stellar meridian, thus showing a difference by P.M. and A.M. observations of about  $21''$  West and East, respectively, of the true meridian as observed on Polaris. From this I conclude that the solar apparatus works satisfactorily, and is in close adjustment.

The magnetic bearing at 6.00 A.M., local mean time, is  $N. 16^{\circ} 23' W.$ , which reduced by table on p. 100 of Manual of Instructions, makes the average declination or variation  $16^{\circ} 19' E.$

June 29<sup>th</sup> 1901, at 9.00 A.M., local mean time, I set off  $39^{\circ} 41' S.$  on latitude arc, and  $23^{\circ} 16' N.$  on declination arc and determine the true meridian at the cor. to sec<sup>2</sup> 13, 18, 19, and 24 on the West Boundary of the Township, which is a sandstone 18 x 16 x 10, marked and witnessed as described by Surveyor General. Thence I run on courses given in original survey.

$N. 89^{\circ} 47' E.$  between sec<sup>2</sup> 18 & 19

- over level ground, along N. side of fence 16.90 Canal 2.5 cks. wide, 15" deep runs southerly.
- 20.20 Cor. of fence bearing North and West.
- 22.25 Wash drains S. W., thence over broken ground and steep ridges formed by the debris of banks.
- 28.00 Wash drains S. W.
- 32.50 Junction of two washes leading E. and N. E.
- 40.16 Line falls on N. side of wash, cor. has apparently been undermined and washed into gulch. I reset same being a sand-

Baseline  
Sub-divisional T.p. 13 S. R. 10 E.

chks.

stone 24 x 18 x 13, 18 in. in ground for  
 $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face and  
 raised a stone mound 8 ft. 1 $\frac{1}{2}$  ft. high, N. of cor.  
 45.00

50.30 Hash gulch 20 feet deep drains S. W.  
 (outlet of Helper Cañon) thence secured  
 broken bluff.

80.16 No trace of old corner set a sand-  
 stone 18 x 15 x 10, 12 inches in. the ground,  
 for cor. to sec<sup>e</sup> 17, 18, 19, + 20, marked  
 with 3 notches on N. and 5 notches on  
 E. edges; and raised a mound of  
 stone 2 ft. base and 1 $\frac{1}{2}$  ft. high, N.  
 of corner, pits impracticable, from  
 which a pine 12" dia. bears S. 62° E.  
 9 lks. dist. marked T. 13 S. R. 10 E.  
 S. 26, B. T. No other trees within limits.  
 Land, mostly broken and rocky, south  
 face of Book Cliffs, soil 3<sup>rd</sup> rate.  
 Timber, a few scattering Pine and Cedar  
 Mountainous on 57.91 chks.

June 29<sup>th</sup>, 1901.

N. 89° 5' 4" E. between sec<sup>e</sup> 17 & 20  
 over broken rocky ridges and gulches.  
 Ridge bears N. W. and S. E.

13.30 Gulch 50 ft. deep drains S. W.  
 18.00 3<sup>rd</sup> rate roofed drain 50 ft.  
 40.88 No trace of old cor. marked a  
 stationary sandstone 36 x 36 x 24,  $\frac{1}{4}$  on N.  
 face, and raised a mound of stones  
 2 ft. at base, 1 $\frac{1}{2}$  ft. high, North of cor.  
 from which a pine 4 in. in dia. bears  
 N. 89° E., 5 lks. distant marked  $\frac{1}{4}$   
 U. 17, 73. T. a pine 6" in dia. bears. S.  
 8° E. 20 lks. distant, marked  $\frac{1}{4}$  S. 20.73. T.

52.00 Gulch 50 ft. deep drains S. W.  
 63.00 Gulch 50 ft. deep drains S. W.  
 80.16 No trace of old cor.  
 On gulch 75 ft. deep drains S. W.  
 marked a stationary sandstone 10 x 5 x 5

Survey  
Subdivisions Tp 13 S., Tr. 10 E.

4 notches on E. side, and 3 notches on S. side of cross (+) mid raised a mound of stone 2 ft. face, 1 1/2 ft. high West of cor.

Sand, very broken, south slope and talus ridges of Book Cliffs

Soil, 4" laterite, rocky

Timber, scattering pine and cedar

Mountainous on 80.16 ds.

Note: At the 1/4 sec. cor. bet. secs. 17 & 20, July 1<sup>st</sup>, 1901. I set off 23° 8' N. on the declination arc, and, at apparent noon, observe the sun for latitude, which I find to be 39° 4' N. which is but slight ly in excess of the proper latitude

July 1<sup>st</sup>, 1901.

July 2<sup>nd</sup> 1901, at 8.30 A.M. I set off 23° N. on the declination arc, and 39° 41' N. on the latitude arc and thus determine the meridian by solar observation at the cor. to sec. 16, 17, 20 & 21, thence down

1. 99° 47' E. bet. sec. 16 & 21

ascend our broken rocky ridge and gulch. Foot of perpendicular face of rocky ledge - I therefore offset

North 53 lks.

E. 99° 47' E. 200 lks.

South 83 lks. to

4.78 on east side of rocks on line in place

10.00 Ridge spur, 100 ft. high, bear. S. W.

15.60 Gulch, 150 ft. deep, drains S.W.

20.30 Ridge spur, 100 ft. high, bear. S. W.

28.40 Gulch, 100 ft. deep, drains S. W.

40.16 The old 1/4 sec. cor. being a sandstone 10x10x6 inches above ground, formerly set marked and witnessed as described by Surveyor General to which I add four bearing trees as follows -

Survey  
Old decisions C.P. 10.00, R. 10.00.

Chs.

- A cedar 4" in dia. bears N. 30° W. 23  
lks. dist. marked  $\frac{1}{4}$  S. 21° E. S. T.  
A cedar 5" in dia. bears N. 9° 30' E. 27  
lks. dist. marked  $\frac{1}{4}$  S. 16° 73. T.  
48.00 Broad gulch 50 ft. deep drifts S. W.  
60.00 Bottom of deep gulch drains S. 24.  
67.00 Flash drains S. 24.  
80.32 No trace of old cor. marked a sta-  
tionary sandstone 15 x 10 x 6 ft. notch  
is on S. and E. edge with a cross  
on corner point <sup>and 30° in N.E., angle 10° E. on S.E. face</sup> for cor. to secs 15, 16, 21, <sub>22</sub>  
22, and raised a stone mound 2 ft.  
tall and  $1\frac{1}{2}$  ft. high on top of rock  
from which  
A pine 3" dia. bears N. 29 E. 29 lks. dist.  
marked N. 13. S. B. 10 E. S. 15 S. S. T.  
No other trees within limit  
Hard, very broken, S. slope of mountain  
Soil, 4<sup>th</sup> rate, rocky.  
Timber, a few live and cedar on E. 1/2.  
Mountainous on 80.32 chs.

July 2<sup>nd</sup> 1901.

Note: At the  $\frac{1}{4}$  sec. cor. left sec<sup>2</sup> 16 Aug 21,  
on July 2<sup>nd</sup>, 1901, I set off

2° 04' N. on declin-

ation arc, at apparent noon, and observe  
the sun for latitude, which I find the  
latitude arc to give  $39^{\circ} 47'$ , which is  
substantially correct.

Note: To test the correctness of the re-  
establishment of the corner to secs 15, 16,  
21 and 22, I go to the  $\frac{1}{4}$  sec. cor. between  
sec<sup>2</sup> 21 and 22 which is a sandstone  
13 x 11 x 7 inches above ground firmly  
set and marked and witnessed as  
described by Surveyor General, from  
which I run N. 8° 2' W. between said  
secs, and at 40.02 chs. I talk 1.5 Ms.  
west of cor. to secs 15, 16, 21 and 22 which  
I conclude substantially corroborates

Kawartha  
Geological Survey of Canada

The 20 m. elevation of the bedrock  
July 27, 1891.

1. At 10' S.E. of G. Ichiket, 10' E. N.W.

1. In account of very difficult ground,  
I placed 1000 ft. below 10' S.E. 10' off  
the line, or the bottom base surface.

2. The most prominent

is a small N.E. dip drainage 8'.

2. The base was 10' east of.

3. A small cut had shown.

3. The base which we had, hardly showed  
any signs of glacial action, therefore called  
itself to

4. One in place of base of old cor.

Set a limestone cor. 20' above, dipping  
in same direction as old cor. measured the top

N. face, and found a stone, marked

as a bed, 112 ft. from North corner

of house where stone N. 57° W.

Width, marked at the 8' 24" N. E.

and 20' "dip. same N. 68" to 10' the  
bottom, measured 10' 10" N. E.

5. Small rock, steep, drainage 8' S.

6. Bridge of 40' high leaves N.W. and S.E.

7. A small ditch distance 8' S.

8. A small stream leaves 8', N.W. and S.E.  
and here it meets S.

9. A small stream leaves N. W.

10. A small stream at all.

11. A small stream leaves N.W. and S.E.  
and here it meets S.E. 10' off the ditch.

12. A part of my small corner, set a sand-

stone 10' N.W. and S.E. 20' and 20' 3, marked

length of 10' and 10' N.W. and S.E. 20' S.

13. A small stream of mixed gravel and  
gravel, a few feet west of the corner,

14. A small stream.

15. A small stream leaves N.W. and S.E. 20' and 20' S.

R. Survey  
Hub divisions: Twp. 13 S., R. 10 E.

obs.

15 lks. distant marked T. 13 S., R. 10 E.  
S. 22, B. I.

A pine 8 in. in dia. bears N.  $62^{\circ} 15' E$   
31 lks. dist. marked T. 13 S., R. 10 E.  
S. 14, B. I.

A pine 17 in. in dia. bears S.  $39 \frac{1}{2}^{\circ} E$ .

37 lks. dist. marked T. 13 S., R. 10 E.,

S. 23, B. I. to other tree within limits  
land, broken ridges and gullees.  
Soil, 4<sup>th</sup> rate, rocky.

Timber scattering pine and cedar.  
Mountainous obs 49.92 obs.

Note - At the 14. sec. cor. bet. sec. 15-  
and 22, at apparent noon, July 3<sup>rd</sup>, 1901,  
I set off  $22^{\circ} 59' W$  on the declination  
arc. to observe the sun for latitude  
which the instrument gives as  $39^{\circ} 41'$ ,  
which is substantially correct.

July 3<sup>rd</sup>, 1901.

July 4<sup>th</sup> at 9 A.M., local mean time,  
I set off  $22^{\circ} 55' W$  on the declination  
arc and  $39^{\circ} 41' N$ . on the latitude  
arc, and thus determine the meridian  
by solar observations at the cor. to  
sec. 14, 15, 22 and 23, whence I run  
S.  $89^{\circ} 37' E$ . bet. sec. 14 and 23.

2.10 Wash drains S. W.

4.80 Gulch 25 ft. deep drains S. W.

8.50 Gulch 25 ft. deep drains S. W.

13.00 Gulch 75 ft. deep drains S.

21.00 Gulch 75 ft. deep drains S.

29.80 Gulch 50 ft. deep drains S.

33.75 Gulch 50 ft. deep drains S.

40.32 No trace of older set a sandstone

$18 \times 10 \times 8$  in. 12 inches in the ground  
for 1/4 sec. cor. marked 1/4 on N.  
face, and raised a stone monument  
2 ft. base,  $1\frac{1}{2}$  ft. high, North of cor.  
from which

Recovery  
Subdivisions, Tp. 13S., R. 10 E.

| dps.    |                                                                                                                                                                                                                                                                                                                                                                   |
|---------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | A pine 12" dia. bears S. $78^{\circ} 30'$ to 30 lps.<br>dist. marked 1/4 S. 23.73. I                                                                                                                                                                                                                                                                              |
|         | A pine 10" dia. bears N. $64^{\circ} 21'$ . 38 lps.<br>dist. marked 1/4 S. 14.73. I                                                                                                                                                                                                                                                                               |
| 61.75   | Gulch 75 ft. deep drains S.                                                                                                                                                                                                                                                                                                                                       |
| 68.35   | Gulch 50 ft. deep drains S.                                                                                                                                                                                                                                                                                                                                       |
| 80.61   | No trace of old corner, set a sandstone<br>14 x 11 x 5 in., 4 in. in the ground, for cor.<br>to sec. 13, 14, 23 & 24 marked with<br>3 notches on S. and 1 on E. edges, and<br>raised a stone mound 2 ft. base,<br>1 1/2 ft. high, 1/4 est. of corner, from which<br>a cedar 5" dia. bears S. $37^{\circ} 0'$ 8 lps.<br>dist. marked S. 13.8, R. 10.6. S. 24.73. I |
|         | A cedar 5" dia. bears S. $38^{\circ} W.$ 28 lps.<br>dist. marked S. 13.8, R. 10.6. S. 23.73. I                                                                                                                                                                                                                                                                    |
|         | A pine 4" dia. bears N. $36^{\circ} 30' W.$ 24 lps.<br>dist. marked S. 13.8. R. 10.6. S. 24.73. I                                                                                                                                                                                                                                                                 |
|         | Sand, very broken talus ridges.<br>Soil, 3 ft. slate, rocky<br>Timber, scattering scrub pine and cedar<br>Mountainous on 80.64 sch.                                                                                                                                                                                                                               |
|         | Note: At apparent noon, July 4 <sup>th</sup> ,<br>1901. I set off $22^{\circ} 54' N.$ on declination<br>arc and observe the sun for latitude<br>which the instrument gives as $39^{\circ} 41' N.$<br>which is correct.                                                                                                                                            |
|         | July 4 <sup>th</sup> , 1901.                                                                                                                                                                                                                                                                                                                                      |
| 1.80    | CY $89^{\circ} 52' E.$ bet. sec. 13 and 24.<br>over broken talus ridges.                                                                                                                                                                                                                                                                                          |
| 5.35    | Gulch 30 ft. deep drains S. to<br>73 bottom of alluvial canyon drains S., road<br>bear N. and S.                                                                                                                                                                                                                                                                  |
| 10.90   | Gulch 50 ft. deep drains S.                                                                                                                                                                                                                                                                                                                                       |
| 13.30   | Ridge bears N. and S.                                                                                                                                                                                                                                                                                                                                             |
| 16.50   | Gulch 75 ft. deep drains S.                                                                                                                                                                                                                                                                                                                                       |
| 25.66   | Ledge bears N. N. and S. to<br>Falls 3 lps. N. of the 14 sec. col.                                                                                                                                                                                                                                                                                                |
| - 40.27 | which is a sand stone 9 x 7 x 6 in.                                                                                                                                                                                                                                                                                                                               |

## Resurvey

Subdivisions Tp. 13 S., R. 10 E.

chs.

above ground, marked and witnessed  
as described by Surveyor General. The com-  
Note. No further resurvey being neces-  
sary, I discontinue line here.  
Land, broken ridges.  
Soil, 4<sup>th</sup> rate, rocky.  
Timber, scattering pine and cedar.  
Mountainous on 40. 27 chs.

July 5<sup>th</sup>, 1901.

X Note: The falling of the line between  
secs 7 and 8 was 36 lks. E. of corner to  
secs 5, 6, 7 and 8 previously established  
(see notes of that line) I theoretically, it should  
have been about 17.0 chs. East. To investi-  
gate this discrepancy, I retrace the line  
between secs 6 and 7, and found the line to  
be 79.31 chs. long, instead of 78.30 chs.,  
as given in original notes, and the course  
to be N. 89° 5' 8" E. instead of due East as  
stated in original notes, which accounts  
for the discrepancy spoken of.

The following are the field notes of this  
retracement or re-survey.

From a point 36 lks. E. of corner to secs  
5, 6, 7 and 8, I sight to a flag set 32.50  
chs. S. 0° 3' E. of said point, while run-  
ning the random line between secs  
7 and 8. From said flag, I turn an  
angle of 90° 3' to the West, and, from  
said corner to secs 5, 6, 7 and 8, I run  
W. between secs 6 and 7

40.00 No trace of  $\frac{1}{4}$  sec. corner.

79.37 Intersect W. 73<sup>13</sup>y. of Tp. 5 lks. N. of  
corner to sec's 1, 6, 7 and 12, which  
is a sandstone 10x6x5 in. above ground,  
firmly set, marked and witnessed,  
as described by Surveyor General.

I hence I run

N. 89° 5' 8" E. on a true line bet sec's 6 and 7

Descent

8.00

## Resurvey

Subdivisions Jp. 13 S., Tl. 10 E.

| ch's. |                                                                                                                                                                                                                                                                                                                       |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 26.00 | Gulch heads N.W.                                                                                                                                                                                                                                                                                                      |
| 30.75 | South point of ridge.                                                                                                                                                                                                                                                                                                 |
| 33.15 | Top of ledge 50 ft. high.                                                                                                                                                                                                                                                                                             |
| 36.00 | Bottom Panther Canon drains S.W.<br>ascend                                                                                                                                                                                                                                                                            |
| 38.83 | at <sup>as perpendicular distance to instrument</sup> S. ct a sandstone 17x9x5 in., 11 in. in<br>ground for 1/2 sec. corner marked 1/4<br>on W. face, and raised a stone mound<br>2 ft. base 1 1/2 ft. high, N. of corner,<br>from which<br>A cedar 3 in. dia. bears S. 55° W., 19 lbs.<br>distant marked S. 77.3. J. |
|       | A pine 3 in. dia. bears N. 50° W., 6 lbs.<br>distant marked 1/4 S. 6.73. J.                                                                                                                                                                                                                                           |
| 40.10 | Bottom of ledge 50 ft. high.                                                                                                                                                                                                                                                                                          |
| 40.65 | Top of same, descend. Signs of coal<br>abundant at this point.                                                                                                                                                                                                                                                        |
| 52.50 | Gulch heads S., drains N.E. into Paw<br>Paw Canyon                                                                                                                                                                                                                                                                    |
| 65.35 | Bottom Panther Gulch or Canon, drains<br>N.W.; a small leap spring in Canon<br>1.50 ch's. S.E. - ascend.                                                                                                                                                                                                              |
| 70.70 | Mouth of short gulch heads N.                                                                                                                                                                                                                                                                                         |
| 79.37 | The corner to secs 5, 6, 7 and 8.<br>Ranch, broken sandstone ledges.<br>Soil, 4 <sup>th</sup> rate, mostly all rocks.<br>Timber, a few pine and cedar.<br>Mountainous on 79.37 ch's.                                                                                                                                  |

August 3<sup>rd</sup>, 1901.

Note 1: After finishing survey on August 3<sup>rd</sup>, 1901, I set up my instrument at the South station of my meridian established at the beginning of the survey near the corner to secs 13, 18, 19 and 24 on the West boundary of the Jp., and, at 4.30 P.M., local mean time, I set off 39° 41' W. on the latitude arc, and 17° 31' N. on the declination arc and mark the front

56

Reservoir  
Subdivisions Twp. 13 S., R. 10 E.

in the true meridian thus determined with the solar, on the stake 5 ch.  
N. of my observing station, and find that this meridian falls 0.3 mi. west of the point established by the Polaris observation described at the beginning of these notes - thus showing only a difference of 16 seconds, and proving that my instrument has remained in adjustment during this survey.

Note 2: For the general description see field-notes of the additional subdivision lines of this township.

Augustus D. Penn  
M. S. Deputy Surveyor.

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## FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by Augustus D. Farnon, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of Subdivisions of Township No. 12 S., Range No. 10 E., just west of Meridian shown in Book 17, showing the respective capacities in which they acted:

Jacob Jones ..... Chainman.  
Frank Branch ..... Chainman.  
Will Farnon ..... Moundman.  
Fred C. Farnon ..... Moundman.  
Fred C. Farnon ..... Arman.  
John Allred ..... Arman.  
James P. Allred ..... Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted Augustus D. Farnon, United States Deputy Surveyor, in surveying all those parts or portions of the Subdivisions in book 17 of Township 13 S., R. 10 E.

Utah meridian, State of Utah, which are represented the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

Jacob Jones ..... Chainman.  
Frank Branch ..... Chainman.  
Will Farnon ..... Moundman.  
Fred C. Farnon ..... Moundman.  
Fred C. Farnon ..... Arman.  
John Allred ..... Arman.  
James P. Allred ..... Flagman.

scribed and sworn to before me this 5<sup>th</sup> day of August, 1901.

L. H. W. -

SEAL

Sanpete County, Utah  
Laurene County, Utah

FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.

I, Augustus D. Ferron, United States Deputy Surveyor  
solemnly swear that, in pursuance of a contract received fr<sup>c</sup> Edward H. Anderson  
United States Surveyor General for Utah, bearing date of  
14th day of May, 1881, I have well, faithfully, and truly, in my  
proper person, and in strict conformity with the instructions furnished by the United States S.  
General for Utah, the Manual of Surveying Instructions, and the laws of  
United States, surveyed all those parts or portions of the fractional subdivisions  
of Township No 13 S., Range 10 E.

..... of the Salt Lake  
meridian, in the State of Utah, which are represented in  
foregoing field notes as having been surveyed by me, and under my direction; and I do further sole-  
swear that all the corners of said survey have been established and perpetuated in strict accordance .  
the Manual of Surveying Instructions, and the special written instructions of the United States Su.  
General for Utah and in the specific manner described in the field notes, and  
the foregoing are the original field notes of such survey; and should any fraud be detected, I will ~  
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Augustus D. Ferron  
United States Deputy S...

Subscribed by said Augustus D. Ferron, and sworn to before me }  
this 11<sup>th</sup> day of September, 1881 }

SEAL

W. McDonald,  
County Clerk  
Benton County, Oregon

APPROVAL.

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, June 23, 1881

The foregoing field notes of the survey of the fractional subdivisions of  
Township 13 South Range 10 East of the Salt Lake P  
arcel Meridian State

executed by Augustus D. Ferron,  
under his contract No. 246, dated May 14, 1881, having  
critically examined, and the necessary corrections and explanations made, the said field notes, and  
surveys they describe, are hereby approved.

Edward H. Anderson  
United States Surveyor.

I certify that the foregoing transcript of the field notes of the above-described surveys in  
has been correctly copied from the original notes on file in this

United States Surveyor Gen.

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**PAGE**

6 A.M.  
6 P.M.

Sept. 17, 1901. Q103

4-679.

B.

BOOK A-281

## FIELD NOTES

OF THE SURVEY OF THE

Standard MeridiansTownship No 13 S., Range No 10 E.

of the First Land Base and Meridian,  
State of Utah

AS SURVEYED BY

Augustine D. Dixon, United States Deputy Surveyor,  
under his Contract No. 246, dated May 11-01, 1901  
1891

Survey commenced July 6, 1901, 1891

Survey completed August 2, 1901, 1891

Light 25-04-07 ✓

## NAMES AND DUTIES OF ASSISTANTS.

James Lewis, Chairman

Frank Branch, "

Will Ferson, Soundman

Fred. C. Ferson, "

Fred. C. Ferson, Runner

John Alfred, "

James P. Alfred, Flagman

BOOK A-281

INDEX DIAGRAM.

*Township....., Range.....*

|    |    |    |    |    |    |
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| 7  | 8  | 9  | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

*Meanders Page.....*

## PRELIMINARY OATHS OF ASSISTANTS.

WE,

James Jones and Frank Branch

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

Fractional Subdivision of Th. 13 S. R 10 E. Salt Lake Meridian Dist.

James Jones, Chai.  
Frank Branch, Chainma

Subscribed and sworn to before me this 26  
day of June, 1891



WE, Will Ferron and Fred C. Ferron

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

Fractional Subdivision of Th. 13 S. R 10 E. Salt Lake Meridian Dist.

Will Ferron, Moundma  
Fred C. Ferron, Moundma

Subscribed and sworn to before me this 28  
day of June, 1891



WE, Fred C. Ferron and John Allred

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

Fractional Subdivision of Th. 13 S. R 10 E. Salt Lake Meridian Dist.

Fred C. Ferron, Axma  
John Allred, Axma

Subscribed and sworn to before me this 28  
day of June, 1891



I, James P. Allred, do solemnly swear that I will well and perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of Fractional Subdivision of Th. 13 S. R 10 E. Salt Lake Meridian Dist.

James P. Allred, Fla.

Subscribed and sworn to before me this 28  
day of June, 1891



W.W. McDonald  
County Clerk  
Palm City, Fla.

## Subdivisions S. p. 135, R. 10 E.

Chs.

Survey commenced July 6<sup>th</sup>, 1931.  
 At the cor. to sec's 4, 3, 12, 23 and 24  
 fully described in previous notes of this  
 township, at 9:00 o'clock A.M. local  
 mean time, I set off  $39^{\circ} 41' N.$  or lati-  
 tude arc, and  $22^{\circ} 44' N.$  or declination  
 arc, for the true meridian and  
 thimurun.

$N. 0^{\circ} 1' W.$  lot. sect. 13<sup>e</sup> 14<sup>s</sup>

Ori. very broken slope forming west  
 side of Alfred Canon.

1.75 Gulch 30 ft. deep drains E. &  
 8.84 Foot of slate ledge, 75 ft. high, perpen-  
 dicular.

10.09 As ground is very difficult for chain-  
 ing, I measure two bases in the direction  
 $E. 89^{\circ} 59' W. 3$  and 4 chs. respectively, and  
 set a flag in line on top of high  
 bluff. angle at west end of 3 chs.  
 base  $85^{\circ} 51' 30''$ . angle at N. end 4 chs.  
 base  $84^{\circ} 29'$ .

Nat. Tang.  $85^{\circ} 51' 30'' = 13.8199 \times 3 = 41.43$  chs.

Nat Tang.  $84^{\circ} 29' = 10.3538 \times 4 = 41.42$  chs.

$10.09 + 41.42$  chs. = 51.51 chs.

51.51 Flag on brow of hill. of rock set a  
 sandstone 12 x 9 x 6 inches, 8 in. in ground  
 for witness #4 sic. cor., marked  $\frac{1}{4}$   
 H. C. on N. face and raised a stone  
 mound 2 ft. base  $1\frac{1}{2}$  ft. high N.  
 of corner. Its importance.

Note - The 40 chs. point falling  
 in breaks, is not established.  
 Ridge spur bears N.W. and S.E.  
 descended.

58.00 Set a sandstone 17 x 8 x 6 in., 11 in.  
 in ground for cor. to sec's 11, 12, 13<sup>e</sup>,  
 marked with 4 notches on S. and  
 one on N. edges and raised a  
 mound of stone, 2 ft. base  $1\frac{1}{2}$  ft.  
 high S. of cor. on a large rock, f.

## Subdivisions Tp 13 S. R. 10 E.

Obs.

Sand, very broken, East slope.  
 Soil,  $\frac{1}{4}$  ft. later, rocky.  
 Timber, a few scattered pine and cedars  
 Mountains on 80 chains. July 6<sup>th</sup>, 1901.

Note: At apparent noon, July 6<sup>th</sup>, 1901,  
 I set off  $2^{\circ} 2' 43''$  from declination arc  
 and observe sun for latitude at  $1^{\circ} 4'$   
 sec. cor. between sec<sup>2</sup> 13 and 14 and  
 find it to be  $39^{\circ} 41'$  which is substantially  
 correct.

N.  $89^{\circ} 52'$  E. on railroad line bet. sec<sup>2</sup> 12 & 13

Note: I sight to a flag on my line  
 left yesterday about 20 chs. S.  $0^{\circ} 1'$  E.  
 of the cor. to sec<sup>2</sup> 11, 12, 13 & 14 from  
 which I turn an angle of  $90^{\circ} 7'$  to the  
 left to obtain above course.  
 I descend over broken E. slope of Moun-  
 tain.

40.00 Wet temp.  $114^{\circ}$  sec. cor.

40.51 I intersect E. Bdg. of Tp. 9 like N. of cor  
 to sec<sup>2</sup> 7, 12, 13 and 18, which is a sand  
 stone 1st 8 x 4 in. above ground, mark-  
 ed and witnessed as described by  
 Surveyor General.

I descend down

S.  $84^{\circ} 58'$  W. on a true line bet. sec<sup>2</sup> 12 & 13  
 second East slope of ridge

22.00 Ridge bears N. and I descend

39.63 A cedar 10 in. in dia on line in bottom  
 east bank allred. Canon drains A  
 ascent, which I mark with 2 toads on E. W. sides.

46.26 Marked a stationary sandstone  $4 \times 3 \times 2$  ft.  
 above ground for 14 sec. cor, 14 on N.  
 face and raised a stone around  
 a ft. base 1 1/2 ft. high North of cor  
 from which

4 ft. 6 in. dia bears S. S. 77. 11' long  
 and marked 14 d 13. B.-S.

## Subdivisions Tp 13 S.R. 10 C

Chs.

- A pine 12 in. dia. bears N.  $67^{\circ} 30' W.$ ,  
34 lks. dist. marked  $\frac{1}{4}$  of 12 lbs. T.  
Top of ridge, bears N. and I descend  
63.00 2 small horizontal ledges N. 3.75 chs. and 18 chs. respectively  
64.75 to bottom of Main Fork Alfred Canon  
drama <sup>down</sup> ascend from this point I  
locate log cabin by traverse line as  
follows:  
West 0.40 chs.  
S.  $10^{\circ} 30' W.$  6.24 chs.  
S.  $36^{\circ}$  E. 15.17 chs. to log cabin  
at forks of canon.  
80.51 The cor. to sec<sup>2</sup> 11, 12, 13 and 14.  
Ravine, steep mountain slopes.  
Soil, 3<sup>rd</sup> rate, rocky.  
Timber, a few scattering pine and  
cedar.  
Mountainous on 80.51 chs.

July 8<sup>th</sup>, 1901.My northeast division on Sun ~~island~~N.  $0^{\circ} 1' W.$  bet. sec<sup>2</sup> 11 and 12.

Note: I obtain my course by sighting  
to a flag on line about 20 lchs. S.  $0^{\circ} 1'$   
E. of the cor. to sec<sup>2</sup> 11, 12, 13, and 14,  
and recrossing my telescope.

Over very broken and steep east slope  
forming west side of Alfred Canon.  
Set a sandstone 16x14x6 in., 15 in. up  
ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$   
on West face, and raised a stone  
mound 2 ft. base,  $1\frac{1}{2}$  ft. high, W.  
of corner.

- 57.00 Rock heads N. W. 15 chs., ascend.  
61.00 East point of rocky spur (leave a  
flag in mound of rocks.)  
80.00 Marked a stationary sandstone  
ledge 20x20x5 in. above ground  
with 5 lches. in it and one top on E. edge, and  
raised a stone mound 2 ft. base  
 $1\frac{1}{2}$  ft. high W. of corner from which

Sub division Tp. 13 S. R. 10 E.

chs.

A Mahogany tree 14" dia. bears 1/3 to 2 1/2 lbs. first marked Tp. 13 S. R. 10 E., Oct. 14, 1913.  
No other trees within limit  
land, very broken, rocky (east slope) of  
Mountain.

Soil, 4<sup>th</sup> rate, rocky  
Timber, a few scattering pine, cedar  
and mahogany.  
Mountainous on 80 chs.

July 9 at 1901 ft. 40. M. Lmt. S. at N. 39° 42' from the top arc,  
and 225 23' on the decl. arc. and defining a line coincident with Decl.

N. 89° 56' E. on a random line bet. sec. 1 and 12.  
Note - I obtain my course by sighting to  
flag left 19 chs. N. 0° 1' E. of cor. to sec.  
1, 2, 11, 12 and turning an angle of 90°  
3' to the left.

Set temp. 1/4 sec. cor.  
Intersect E. 73 1/2' of Tp. 23 lbs. N. of  
cor. to sec. 1, 6, 7 and 12 which is a  
sandstone 9x8x6 m. above ground  
marked and witnessed as described  
by Surveyor General.  
Hence I run.

N. 89° 54' W. on a true line bet. sec. 1 & 12  
over steep rough mountain slopes.  
Descend.

Bottom of deep canon draws S. W.  
Ascend

Indian Trail bears N. and S. on top  
of dividing ridge between Alfred  
and W. Fork of Dead M. and Canon,  
bears also N. and S., descended

Set a sandstone 16x14x3 m., 10 m.  
m. ground for 1/4 sec. cor. marked  
1/4 on N. face and raised a stone mound  
2 ft base, 1 1/2 ft high. North of corner  
from which

A Norway pine 17" dia. bears 1/2 to 1 1/2 lbs. first marked 1/4 S. N. 27

A Norway pine 16" dia. bears 1/2 to 1 1/2 lbs. first marked 1/4 S. N. 27

## Club divisions Jp. 13 &amp; R. 10 E.

chks

58.50

75.00

80.48

Main fork Alfred Canon drains it  
Hollow 30 ft. deep drains S. E.  
The cor. to sec<sup>s</sup> 1, 2, 11 and 12.  
Land, steep Mountain slopes.  
Soil, 3<sup>rd</sup> rate, partly rocky.  
Timber, scattering pine and cedar.

Mountainous on 80.48 chks.

July 10-1902 at 11.50 A.M. Lmt. dist off 22° 16' W. north  
declination the sun's declination is 39° 43' N.

N. 0° 1' W. on a random line bet. sec<sup>s</sup> 1 & 2.  
Note - I obtain my course by sight-  
ing to the flag left 19 Jus. S. 0° 1' E.  
of the cor. to sec<sup>s</sup> 1, 2, 11, and 12, and  
reversing telescope.

40.00

Alt. temp. 14 sec. cor.

80.47

Intersect N. 73° 45' of Jp. 14 chks. W. of  
cor. to sec<sup>s</sup> 1, 2, 35 and 36, which  
is a sandstone 10 x 10 x 6 in. above  
ground firmly set and marked  
and witnessed as described by sur-  
veyor General.

Hence I run

34.00

N. 0° 5' W. on a true line bet. sec<sup>s</sup> 1 & 2.  
Over rolling mountains, descend.  
Hollow drains N. W. into Hollow Creek,  
gentle ascent.

40.47

Alt. a sand stone 18 x 12 x 4 in., 12 in.  
in ground for 14 sec. cor. marked  
1/4 on N. face and raised a stone  
monument 2 ft. base, 1 1/2 ft. high N.  
of corner, pine impatiens.

48.50

Crop Ridges bears N. W. and S. E. and  
N. E. and S. W., descend

60.35

Indian Trail bears N. E. and S. W.

80.47

The cor. to sec<sup>s</sup> 1, 2, 11 and 12.  
Land, N. 1/2 rolling mountains, S. 1/2  
steep mountain slope.

Soil, 3<sup>rd</sup> rate.

Timber, a few scattering pine.

Ms.

mountainous on S. 80.47 ticks.

July 11, 1901.  
My newest solar meridian instrument

Having moved my camp to the 76. E.  $^{\circ}$  of the D. C.  $^{\circ}$  sec 15 in this Twp. being in latitude  $39^{\circ}41'N$ , I establish a meridian there to test my solar as follows:

At 12.5 A.M., local mean time, July 12, 1901, I observe Polaris on its eastern elongation as it rises on the tangent and drive a stake 5 chains N. of station, whereon I mark the line thus determined. At 7 A.M., local mean time, same day, I turn the azimuth of Polaris  $135^{\circ}$  to the West and mark the true meridian with a pencil on another stake set 5 ch. north of station. At same time I set off  $22^{\circ}3'$  from the declination arc, and  $39^{\circ}41'$  on latitude arc, and observe sun for meridian which I mark on same stake holding stellar meridian and find it to fall  $0.3$  m. East of true stellar meridian showing a difference of about  $.16^{\circ}$  East of true meridian as observed by Polaris. This indicates that my solar has retained its adjustments.

The magnetic bearing at 9.00 A.M. local mean time, is  $16^{\circ}21'W$ , which reduced by table on p. 100 of Manual of Instructions, makes the average variation  $16^{\circ}17'6''$ .

July 12<sup>th</sup> at 9.30 A.M. I sets off  $22^{\circ}01'N$  by the declination arc and  $39^{\circ}41'W$  by the latitude arc to determine my meridian by other observations at the corners of sec 14, 15, 22 and 33 as re-established during

Sub divisions Tp. 13 S., R. 10 E.

ch's.

this survey, (see re-survey notes), from which I run

N. 0° 1' N. lat. sec<sup>2</sup> 14 and 15

Gulch 50 ft. deep drains 24.

Gulch 50 ft. deep drains D. 24.

Ridge bears O. M. V.A.E.

Gulch drains N.

Marked stationary sandstone ledge  
20 x 12 x 8 ft. above ground  $\frac{1}{4}$  at cor. point  
for  $\frac{1}{4}$  sec. cor. and raised a mound  
of stone 2 ft. base,  $1\frac{1}{2}$  ft. high West  
of corner, from which.

A pine 4 m. dia. bears N.  $79^{\circ}$  E. 40  
lks. dist., marked  $\frac{1}{4}$  S. 14 B.S.

A fine 7 in. dia. bears S.  $19\frac{1}{2}^{\circ}$  N. 47  
Eks. dist., marked  $\frac{1}{4}$  S. 15° E. J.

Steep ascent.

Ridge bears N. from Main Mountain.

*A pine* 8 in. dia. on line, marked with <sup>No. 3 sides</sup> *cypress* <sup>2 Chapman</sup> *frame house* bears N.  $68^{\circ}$  W. 6 cts. distant

Enter according to Cañon drains S. W.

## Ascend

Road bears N. and S. Hence no road.

A spine 12 mm. dia. <sup>marked with 50 dashes on its S. poles</sup> in line, abrupt

Ascent, road bears N. E. Further chain.

ing being impossible to now return to

point 6'3.86' on line from which I took

angulate to a flag set on line on top

of high bluff.

Play off a base in a westerly direction at right angles to line of coast.

right angles to line, of 3 chains and  
" chains of 3 ch point the angle.

4 chains. At 3 ch. point flag makes an angle of  $79^{\circ}5'$  with base of ship.

an angle of  $74^\circ 5$  with base. At 4  
ch. from glass maker end 2012 ft -

the front flag makes an angle  
with base of  $75^{\circ}35'$

Nat. Tang.  $79^{\circ}5'$  = 5.185

3

$$\text{Nat. Tang. } 75^{\circ}35' = \underline{3.89}$$

## Gubderson's Ch 130' R. 10 E

Offs.

$$63.86 + 15.56 = 79.42$$

79.42 Distance to flag on top of hill

80.00 Cut a sandstone 15 x 11 x 7, 100m in ground  
for col. to sec! 10, 11, 14 and 15, marked with 4  
notches on N. and S. on E. edges and  
raised a mound of stone 9 ft. base  
1½ ft. high West of corner from which  
A mahogany 16 in. dia. bears 2790 lbs.  
lbs. dist. marked T 13 S., R. 10 E. D. 15 R. J.  
A pine 13 in. dia. bears W. 10½° to 92 lbs.  
dist. marked T 13 S., R. 10 E. D. 11, 73, J.  
Land, very broken mountain slopes  
Soil, 4 ft. rate rocky.

Timber, some scattering pines, cedar,  
and mahogany.

Mountainous on 80.00 chain

Note: At the ¼ sec. cor. bet. sec! 14 and 15  
at apparent noon I set off 22° 0' West  
the declination arc to observe sun for  
latitude which I find by the instru-  
ment to be 39° 41' which is substan-  
tially correct.

July 17<sup>th</sup>, 1901.

D. 89° 37' 6" on a random line bet. sec! 11 and 14

40.00 Set a temp. ¼ sec. cor.

80.16 Intersect N. and S. line 41 lbs. S. of cor  
to sec! 11, 12, 13 and 14  
from which I runN. 89° 55' 2" on a true line bet. sec! 11 and 14  
Foot of perpendicular ledge 100 ft. high  
on top of ridge bears N. and S.  
Chasm 50 ft. deep, 30 ft. wide bears  
N. and S.15.00 Small canon heads N. about 90 ft.  
drains it

20.00 Ridge bears N. and S.

21.00 Head of hollow drains N. N.

22.00 Cut a sandstone 20 x 10 x 7 in., 15 in.  
in ground for ¼ sec. cor. marked

## Subdivisions Tp. 13 S. R. 10 E.

44. 1/4 on N. face and raised a stone mound 2 ft. base and  $1\frac{1}{2}$  ft. high  
North of cor., pits impeded, around  
Ridge spur bears N.W. and S.E.  
descend
- 44.50 Sand stone ledge 30 ft. deep.  
63.50 Enter flat of Cordially Canon at  
mouth of small hollow heads S.E.  
and E.
- From this point I run a traverse  
line to locate further improvements  
as follows:
- N.  $46^{\circ} E.$  9.50 chs. to mouth of red  
tunnel having a course of S.  $66\frac{1}{2}^{\circ} E.$   
 $1.68$  ch. long. Thence N.  $83\frac{1}{4}^{\circ} E.$  5.90 chs.  
to a point at mouth of Wilson's  
hollow, Station **A** Thence N.  $42^{\circ} W.$   
5 chs. to mouth Anthracite Tunnel which  
has a course of N.  $82^{\circ} W.$  4.10 chs. long.  
Thence N.  $11^{\circ} E.$  8 chs. to Station **B**.  
From which a tunnel bears N.  $50^{\circ} E.$   
3.50 chs. From station **B**, I continue  
N.  $11^{\circ} E.$  9.75 chs. to mouth of tunnel  
carved in. From point at mouth of  
Wilson's hollow called Station **A**. I run  
N.  $82\frac{1}{4}^{\circ} E.$  14.73 chs., S.  $77\frac{3}{4}^{\circ} E.$  6.43  
ch., S.  $49^{\circ} E.$  3 chs. to mouth of Wil-  
son's tunnel which has a course S.  
 $40\frac{1}{2}^{\circ} W.$  2.10 chs. long.
- 67.50 Waggon road bears N. E. and S. W.  
ascend
- 69.50  
80.16 The cor. to sect. 10, 11, 14 and 15.  
Land, broken, mountainous.  
Soil, 3rd rate, rocky.
- Timber, a few pine and cedar.
- Mountainous on S. 0. 16 chs.  
July 13th 1901, at 10 A.M. due N.  $39^{\circ} 42' W.$  on the bottom  
and  $21^{\circ} 53' W.$  on the deck are undetermined by  
measured with the sextant.
- (N. 0° 1' W. belt sect. 10 and 11.)
- 15.00 Ridge bears N.  $10^{\circ} E.$  & S.  $10^{\circ} W.$

## Subdivisions Pg. 13 &amp; R. 10 E.

- 25.50 Canoes back, a rock 150 ft. high, on top  
of ridge bears E. and N. dipped.
- 44.02 Set to limestone 16 x 85 ft. m. 1000 ft.  
ground for 1/2 sec. color marked 1/4 in.  
N. face and raised a stone mound  
2 ft. base and 1 1/2 ft. high W. of corner,  
from which
- A. boulders 2 in. dia. bears S. 25° W., 5  
lbs. dist. marked 1/4 D. 10, B. C.
  - In far way fine 18 in. dia. bears N. 47° E.  
in like dist. marked 1/4 D. 11 B. C.
- 56.10 Bottom of gulch drains N. 70° E.
- 56.12 Bottom of West Fork of Corral Creek  
Cottonwoods 1. 0. 2 small plants  
boulders, second crev. rocky W. of slopes.
- 56.13 In 1/2 sec. to limestone, parallel one, 6 x 12  
ft. on ground ~~marked~~<sup>marked</sup> with a cross at corner  
front and 5 notches on E. and  
2 on S. edges, pred. rippled, a mound  
of stone 2 ft. base, black and on top  
of corner rock from which
- A fine 2 in. dia. bears N. 47° W. 3 lbs.  
dist. marked D. 13 D. B. 10 C. D. 2, B. C.
  - 1 marble and a m. dia. bears N. 50° E. 12 lbs.  
dist. marked D. 13 D. B. 10 C. D. 2, B. C.
  - 1 marble and a m. dia. bears D. 2 1/2, B. C.  
12 lbs. dist. marked D. 13 D. B. 10 C. D. 11 B. C.  
and a 1/2 step mountain slope.
- 57.12 1/2 sec. to
- C. timber, a few pine cedar and mahogany  
1/2 mile distance and 30.00 lbs. to  
dry wood at 1000 feet, dist. 4000 ft. in the  
distance, the running total is 39.43 lbs.

From con. last described C. sight back  
to Hwy. 48. 1/2 sec. 4000 ft. dist. C. from  
W. side of hill on angle of 19.5° E.  
west dip.

C. 1/2 sec. E. on a random line bet. 100' and 110'  
a 1/2 sec. dip. 1/2 sec. 1000 ft.  
dist. marked D. 10 sec. 1/2 sec. 35 lbs. dist. of  
con to sec. 1/2 sec. and 1/2 sec.

Subdivisions Tp. 13 S., R. 10 E.

- chrs from which I run  
S. 89° 50' W. on a true line bet. sec<sup>s</sup> 2 and 11.  
gradual ascent.
- 12.50 Tops of mountain or ridge, bears N. 8° S.  
Descend from ridge.
- 16.50 Set a sandstone 17 x 10 x 5 in., 11 in. on  
ground for  $\frac{1}{4}$  sec. corner marked  $\frac{1}{4}$  on  
N. face and raised a stone mound, 2  
ft. base, 1  $\frac{1}{2}$  ft. high on top of big yellow  
rock 30 lks. W. of corner, for the better  
identification of the position of this corner, from which  
A cedar 6 in. dia. bears N. 85° W., 3.0 lks.  
distant, marked  $\frac{1}{4}$  S. 2, B. I. <sup>"limit"</sup> to other trees.
- 51.50 Enter Cordingly Cañon.
- 52.50 Ascend.
- 67.50 Ridge between forks of Cordingly  
Cañon bears N. and S. descend.
- 71.40 A pine 16 in. dia. on <sup>butches on E. W. sides</sup> line marked with 2,  
I he corner to sec<sup>s</sup> 2, 3, 10 and 11.
- 80.52 Sand, steep mountain slopes.  
Soil, 3<sup>rd</sup> rate.  
Timber, a few pine and mahogany.  
Mountainous on 80.52 chrs.
- July 16, 1901.  
My forecast, clear observation impossible.
- From corner to sec<sup>s</sup> 2, 3, 10 and 11, I sight  
back to a flag left at  $\frac{1}{4}$  sec. cor. between  
sec<sup>s</sup> 10 and 11, reverse telescope, and run,  
N. 0° 1' W. on a random line bet. sec<sup>s</sup> 2 and 3.  
Set temp.  $\frac{1}{4}$  sec. corner.
- I intersect N. 13° y. of Tp. 12 lks. E. of cor.  
to sec<sup>s</sup> 2, 3, 34 and 35, which is a sand-  
stone 14 x 12 x 8 in. above ground mark-  
ed and witnessed as described by  
Surveyor General, from which I run,  
S. 0° 6' E. on a true line bet. sec<sup>s</sup> 2 and 3.  
Gentle ascent.
- 4.00 Enter divide between Willow Creek  
and Cordingly Cañon drainage, a part  
descend abruptly west to Cordingly.
- 8.00

Cut directions Tp. 13 sd. R. 10 E.

ch. 1

Cañon drainage.

- 21.00 Head of extreme N. fork of Cordero Cañon  
here along gentle E. slope.  
20.19 Set a sandstone 18x12x4 in., 12 in. in  
ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$   
on N. face, and raised a stone <sup>foot</sup> mounted  
2 ft. base and  $1\frac{1}{2}$  ft. high,  $\frac{1}{4}$  of corner.  
16.30 S. westling ridge between two forks of  
Cordero Cañon bears N. W. and S. E.  
Descending abruptly.  
- 30.19 The corner to sect 2, 3, 10 and 11.  
Land, broken mountain slopes.  
Soil, 3<sup>rd</sup> rate and rocky.  
Timber, some fine, cedar and ma-  
hogany on South half.  
Mountainous on S. 0° 19' chs.  
Alt. 4 P.M. set off 39° 43' N. latitude arc, and 21° 6' E.  
decl. arc, and determine true meridian with solar

July 18<sup>th</sup>, 1901, at 8 o'clock, A.M. I set  
off 39° 41' N. the latitude arc and 21° 6' E.  
the declination arc and determine a true  
meridian with the solar at the corner  
to sec<sup>s</sup> 15, 16, 21 and 22, thence I run  
(N. 0° 2' W. between sections 15 and 16)  
over very broken ledge masses on E. side  
of Bull Cañon.

On account of impassable ledges, I  
offset 4 chs. N. and run N. 0° 2' W. on  
offset line.

#### Notes on offset line

- 15.16 Foot of perpendicular ledge  
60 ft. high.
- 25.52 Gutch 150 ft. deep drains N.  
40.00 measure 4 ch. E. and at  
40.00 Our line in place, near foot of sand  
stone ledge 75 ft. high bears N. W. and  
S. E. set a sandstone 2.0 x 1.0 x 7 in.  
15 in. in ground for  $\frac{1}{4}$  sec. corner marks  
ed  $\frac{1}{4}$  on N. face, and raised a stone mounted  
2 ft. base,  $1\frac{1}{2}$  ft. high,  $\frac{1}{4}$  of corner.

## Subdivisions to Tp. 13 S. C. 100.

che

from which,

A pine 6 in. dia. bears S.  $50^{\circ}$  W. 7 lks.  
dist. marked  $\frac{1}{4}$  S. 16 B. I.

A pine 12 in. dia. bears East 60 lks.  
dist. marked  $\frac{1}{4}$  S. 15 B. I.

I now return to my 40 chain point  
and offset line of chs. N. of true line  
and continue N  $0^{\circ} 2' W.$  on said offset line.  
Notes on offset line.

63.00 to cross Bull Canon, measure  
4 chains E. to

On line in place, and continue N  $0^{\circ} 2'$   
W. on line in place.

66.00 Bottom of main fork Bull Canon.  
I hence along very broken E. slope on  
west side of canon.

80.00 Marked a stationary sandstone  
18 X 16 X 12 in above ground for corner to  
sec<sup>1</sup>, 9, 10, 15 and 16, marked with 4  
notches on S. and 3 on E. edges, and  
raised a stone mound, 2 ft. base,  $1\frac{1}{2}$   
ft. high N. of corner, from which  
A pine 6 in. dia. bears S.  $55^{\circ}$  W. 23 lks.  
distant marked T 13 S. R. 10 E. S. 16, B. I.

A pine 16 in. dia. bears N  $60^{\circ}$  E. 11 lks.  
distant marked T 13 S. R. 10 E. S. 10, B. I.

A pine  $1\frac{1}{2}$  in. dia. bears S.  $40^{\circ}$  E. 50 lks.  
distant marked T 13 S. R. 10 E. S. 15, B. I.  
Land, broken cliffs and mountain  
slopes.

Soil, 3<sup>rd</sup> and 4<sup>th</sup> rate, mostly all  
rocks.

Timber, a few pine and cedar.

Mountainous on 80.00 chs.

Note - July 18<sup>th</sup>, at apparent noon, I  
set off, at the  $\frac{1}{4}$  sec. cor. bet. sec<sup>1</sup> 15 and  
16,  $21^{\circ} 4'$  from the declination arc, and ob-  
serve the sun for the meridian; the  
resulting latitude is  $39^{\circ} 42'$  which  
is substantially correct. July 18, 1901.

Out divisions to If. 13 S. R. 10 E.

| Chs.   |                                                                                                                                                                                                                                                                           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | From the cor. to sec. <sup>s</sup> 9, 10, 15 and 16, I sight back to flag left 17 chs. N. 0° 2' E. of said corner, from which I turn an angle of 90° 10' E. and thence run<br>N. 89° 48' E. <sup>on a north-south line</sup> bet. sec. 10 and 15                          |
| 40.00  | set temp. 1/4 sec. corner.                                                                                                                                                                                                                                                |
| 74.96  | X intersect N. and S. line 5 lks. N. of corner to sec. <sup>s</sup> 10, 11, 14 and 15 from which I run                                                                                                                                                                    |
| 1.25   | N. 89° 50' N. on a true line bet. sec. 10 & 15 S. point of ridge Northerly. descend over ledges of sandstone.                                                                                                                                                             |
| 9.40   | Bottom of "Fan" Hollow 3.50 feet deep draws S. E. ascend over ledges of sandstone.                                                                                                                                                                                        |
| 26.30  | Ridge between 2 forks of Cordially Cañon, descend.                                                                                                                                                                                                                        |
| 30.89  | Top of ledge, 15 ft. high.                                                                                                                                                                                                                                                |
| 3.9.98 | Set a sandstone 20x8x5 in. 15 in. in ground for 1/4 sec. corner marked 1/4 on N. face and raised a stone around 2 ft. base, and 1 1/2 ft. high north of corner, from which                                                                                                |
|        | A cedar 2 1/4 in. dia. bears S. 26 1/2° E. 19 lks. distant marked 1/4 S. 15, 70. S. A pine 18 in dia. bears N. 16 1/2° W. 38 lks. distant marked 1/4 S. 10, 70. S.                                                                                                        |
| 41.25  | Bottom of Cañon draws S. S.                                                                                                                                                                                                                                               |
| 42.25  | Road to Aberdeen mine and Price bears northerly and southerly. From this point I turn N. 6 3/4° E. 3.00 chs. N. 16 1/2° W. 2.80 chs. N. 8 1/4° E. 1.80 chs. <sup>swinging</sup> to log house, sack <sup>and</sup> Aberdeen Mine. Thence return to 42.25 on line in place. |
| 61.20  | ascend, very steep                                                                                                                                                                                                                                                        |
|        | Ridge between Bull Cañon and Cordially Cañon bears N. and S.                                                                                                                                                                                                              |
| 64.75  | Top of red sand stone ledge, 40 ft. high                                                                                                                                                                                                                                  |
| 77.50  | Bottom of Bull Cañon draws S.                                                                                                                                                                                                                                             |
| 79.96  | This corner to sec. <sup>s</sup> 9, 10, 15 and 16.                                                                                                                                                                                                                        |

Subdivisions to Tp. 13 S., R. 10 E.

chs.

Land, broken mountain slopes and ledges.

Soil, 4<sup>th</sup> rate, rocky.

Timber, a few pines and cedar.  
Mountainous on 74.96 chs.

July 19<sup>th</sup>, 1901.

From the cor. to sec<sup>ts</sup> 9, 10, 15 and 16,  
I sight back to flag left 17 chs  
S. 0° 2' E. of said corner, reverse tele-  
scope and run.

N. 0° 2' W. bet. sec<sup>ts</sup> 9 and 10.

Over very broken ledges and rock  
slides on steep East slope on N. side  
of Main Bull Canon.

Rocky gulch 40 ft. deep, drains N.E.  
Bottom of Rock Gulch 5-0 ft. deep, drained E.  
Set a sandstone 16 x 10 x 8 ins., 10 in. in  
ground marked 1/4 on N. face, and  
raised a stone mound 2 ft. base  
and 1 1/2 ft. high, N. of corner, <sup>marked</sup> pit imp.

Bottom of gulch 30 ft. deep, drained E.  
Bottom of ledge 100 ft. high.

Top of mountain enter plateau, gently  
descending to north.

Leave at flag on line at this point  
Set a sandstone 26 x 12 x 4 ins., 18 in.  
in ground for corner to sec<sup>ts</sup> 3, 4, 9 and 10,  
marked with 5 notches on S. and 3 on  
E. edge and raised a mound of stone  
3 ft. base, 2 ft. high on high ground  
20 lbs. W. of corner, from which,  
A Balsam 8 in. dia. bears N 61° W. rocks  
distabt marked T 13 S., R. 10 E. S. 9, B. 1.

No other trees within sight, peak bears S. E. 6 ch. dist.  
Land, very broken and rocky, mountain slope  
Soil, 4<sup>th</sup> rate, rocky.

Timber, a few pines on N. end

Mountainous on 80.00 chs.

July 20-01, At 4 P.M. start off 39° 43' N on Lat. arc, and  
200 ft. on decl. arc, and determine a true meridian with the Solar

## Subdivisions Twp. 13 S., R. 10 C.

| chks.   |                                                                                                                                                                                                                                                                                                              |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|         | From the corner to sects 3, 4, 9 and 10, I sight to flag 11.30 chks. S. $0^{\circ}2' E$ of said corner, and turn an angle of $90^{\circ}08' E$ and run N. $89^{\circ}50' E$ . on a random line bet. sects 3 and 10. Set temp. 1/4 sec. corner.                                                               |
| 40.00   | Intersect N. and E. line 74 chks. E. of corner to sects 2, 3, 10 and 11. Hence I run S. $82^{\circ}42' W$ . on a true line bet. sects 3 and 10 over rocky slopes of mountains, descend on S. W. slopes.                                                                                                      |
| 7.00    | To bottom of N. fork of Cordwagley Cañon drains S.E. sand.                                                                                                                                                                                                                                                   |
| 40.19   | At head of hollow draining S. E., set a sandstone 20 x 6 x 6 in., 15 in. in ground for 1/4 sec. corner marked 114 on N. fork and raised a stone mound 2 foot face and 1 1/2 ft. high N. of corner, pits impracticable, from which a balsam 5 in. dia. bears 76.66 1/2° N. 60 chks. dist. marked 14 S. 3 B.S. |
| 6 6.00  | Enter small plateau dividing Willow Creek, Panther Cañon, Bull Cañon and Cordwagley Cañon drainages. Gentle descent.                                                                                                                                                                                         |
| - 80.39 | I fw cor. to sects 3, 4, 9 and 10 land, mostly steep mountain slopes. Soil, 3rd rate. Timber, a few cedar, aspen and pine. Mountainous on 80.39 chks. Sat. exp. at 11.50 a.m., l.m.t. Dist off 20.19 when decl arc, the resulting lat. is $39^{\circ}43' N$ .                                                |
|         | From the cor. to sects 3, 4, 9 and 10, I sight to flag 11.30 chains S. $0^{\circ}2' E$ of said corner reverse my telescope and run N. $0^{\circ}2' W$ . on a random line bet. sects 3 & 4. Set temp. 1/4 sec. corner.                                                                                        |
| 40.00   | Intersect N. Bx. of Twp. 74 chks. W. of corner to sects 3, 4, 3, 3 and 3, 4, which is a sandstone 16 x 10 x 6 in. above ground marked                                                                                                                                                                        |
| 80.40   |                                                                                                                                                                                                                                                                                                              |

## Subdivisions of 13 S. R. 10 E.

Obs.

and witnessed as described by Surveyor General Thence I run  
 $N. 0^{\circ} 1' E$  over two line bet. sec't 3 and 4  
descend on N. W. slope, very rocky and steep.  
11.90 Short gulch drains N. W.  
8.15 Top of ledge 40 ft. high  
12.00 Bottom of deep ravine or canon  
drains N. W. into Willow creek  
ascend very steep N. slope  
22.00 N. W. point of ridge, thence along  
gentle N. W. slope  
40.40 set sand stone 14 x 9 x 7 inches, 9 in  
in ground for 1/4 sec. corner mark  
ed 1/4 on N. face and raised a stone  
mound 3 ft. base, 1 1/2 ft. high, west  
of corner. fit impossibly  
5.400 Head of gulch drains N. W. ascend  
Enter small plateau - very gentle as-  
cent  
62.50  
80.40

Line cor. to sec't 3, 4, 9 and 10.  
Land, very steep rough mountain slopes  
Soil, 3rd rate  
Timber, some dead aspen on S. half,  
and a few cedar and pine on N. end.  
Mountainous on 80.40 chs.

July 23<sup>rd</sup> 1901.  
Sky overcast, solar observation impossible

July 24, at 8 o'clock, A. M., local mean  
time, I set off  $11^{\circ} 5' N$  on the declination  
arc and  $39^{\circ} 45' N$  on the latitude arc and  
determine the true meridian with the  
solar, at the cor. to sec't 16, 17, 20 and 21  
Thence I run

$N. 0^{\circ} 3' W$  between sec't 16 and 17  
It being impossible to chain on account  
of perpendicular ledges, I set a  
flag in line and lay off a right  
angle easting, and measure base  
of 1 and 2.60 chs.

cts.

From the two chasm point, flag makes an angle of  $84^{\circ} 14'$  with the base; from the 2,600 chs point flag makes an angle of  $82^{\circ} 31'$  with the base.  
 Nat. Tang  $84^{\circ} 14' = 9.902$

$$\begin{array}{r} \text{Nat. Tang } 82^{\circ} 31' = 7.612861 \\ \hline 2.6 \end{array}$$

445 6.7716

15 2 25.72

179.793436 dist. to flag

- 19.79 To flag on top of ledge Bluff, 700 ft. high. descend.
- 28.25 Gulch 150 ft. deep drains East.
- 40.00 On E. point of ridge set a sand stone 16 X 10 X 5 in., 15 in. in ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  on W. face, and raised a stone mound 1 $\frac{1}{2}$  ft. high 2 ft. East N. of corner, from which, a pine 6 in. dia. bears N. 20°W. 16 lks. distant, marked  $\frac{1}{4}$  S. 17, B. J. A pine 4 in. dia. bears S. 10°E. 23 lks. distant, marked  $\frac{1}{4}$  S. 16, B. J.
- 45.70 Coal & hollow drains S. E., a coal vein 2 $\frac{1}{2}$  ft. thick crops out 150 lks. East of line - steep ascent.
- 60.70 Ridge bears Easterly and North Westerly, descend abruptly. Bear flag at this point Chl. w. sandstone 24 X 92 X 18 in., 18 in. in ground for corner to secs 8, 9, 16 and 17, marked with 4 notches on C. side E. edge and raised a stone mound 2 ft. face and 1 $\frac{1}{2}$  ft. high west of corner, from which, a pine 6 in. dia. bears S. 60°W. 13 lks. dist. marked S. 13d R. 10 E., S. 17, B. J. No other tree within limit to land, bluffs and mountain slopes. Soil, 4 $\frac{1}{2}$  and 3 $\frac{1}{2}$  parts

Subdivisions Tp 13 S., R. 10 E.

chs

Timber, a few pines and cedars.  
Mountainous on 80.00 chs.

July 24<sup>th</sup>, 1901.

Note July 24<sup>th</sup>, 1901, at the  $\frac{1}{4}$  sec. corner between secs 16 and 17, I set off 19° 5' 5" from the declination arc, and, at apparent noon, observe the sun on the meridian. The resulting latitude is  $39^{\circ} 41'$  which is substantially correct.

From corner to secs 8, 9, 16 and 17, I sight to flag 14.30 chs. S.  $0^{\circ} 3'$  E. of said corner, and true an angle of  $89^{\circ} 44'$  to the East, whence I run

S.  $89^{\circ} 47'$  E. on a random line bet. secs 9 & 16.

Set temp.  $\frac{1}{4}$  sec. corner.

Intersect N. and S. line 21 lks. S. of corner to secs 9, 10, 15 and 16.  
whence I run

N.  $89^{\circ} 56'$  W. on a true line bet. secs 9 and 16.

Ascend steep and rocky East slope.

Ridge bears N. W. and S., descend.

W. fork of Bull Canyon, drains S. E.  
Set a sandstone 16x11x4 in., 10 in. in ground for  $\frac{1}{4}$  sec. cor. marked  $\frac{1}{4}$  on N. face, and raised a stone mound 2 ft base,  $1\frac{1}{2}$  ft. high, N. of corner from which,

A cedar 12 in. dia. bears S.  $8^{\circ}$  E., 23 lks. distant, marked  $\frac{1}{4}$  S. 16, B. T.

A cedar 18 in. dia. bears N.  $46\frac{1}{2}^{\circ}$  E., 26 lks. distant, marked  $\frac{1}{4}$  S. 9, B. T.

Ridge bears Northerly and Southerly, descend

The corner to secs 8, 9, 16 and 17.

Land, steep mountain slopes.

Soil, 3<sup>rd</sup> rate.

Timber, some pine and cedars.

Mountainous on 80.16 chs.

July 25<sup>th</sup>, 1901.

## Subdivisions C.P. 13 S., R. 10 E.

chrs.

- From the corner to sec<sup>s</sup> 8, 9, 16 and 17, I sight to the flag 14.30 chrs. S.  $0^{\circ}36'$  of said corner reverse telescope and run N.  $0^{\circ}3'$  W. bet sec<sup>s</sup> 8 and 9.
- Descend into gulch.
- 13.00 Gulch 100 ft. deep drains W. W. ascend Ridge bears E. and N. descend.
- 31.85 Set a sandstone 20 x 6 x 5 in., 1.5 m. in ground for 1/4 sec. corner marked 1/4 on N. face, and raised a stone mound 2 ft. base, 1 1/2 ft. high, N. of corner. It's impossible; no trees within limit.
- 46.25 Bottom of hollow, drains N. 15 chrs, then N. W., ascend.
- 62.65 Top of ridge bears E. and N., descend. I here leave a flag for backsight.
- 75.00 Ravine 100 ft. deep, drains N. W.
- 8.00 Near N. foot of ledge, marked a stationary sandstone 60 x 36 x 1.2 in. above ground for cor to sec<sup>s</sup> 4, 5, 8 and 9 marked with 5 notches on S. and 4 on E. edges, and raised a stone mound 2 ft. base, 1 1/2 ft. high, N. of cor. corner. It's impossible; no trees within limit.
- Land, very broken, mountain slopes. Soil, 3<sup>rd</sup> rate.
- Timber, a few scattering pine and cedar.
- Mountainous on 8000' Chrs. July 26/1 at 4 P.M. Sat off 39° 43' N. Lat and 119° 27' W. Lon due east and determine a line midline with the Solar.

XIV

## Subdivisions T.p. 13 S., R. 10 E.

obs.

From the corner to sec<sup>t</sup>s 4, 5, 8 and 9 I sight to a flag 17.35 chs. S.  $0^{\circ} 3' E.$  of said corner, and turn an angle of  $89^{\circ} 53' E.$ , thence I run

S.  $89^{\circ} 56' E.$  on a random line bet. sec<sup>t</sup>s 4 and 5. Set temp.  $\frac{1}{4}$  sec. corner.

Intersect N. and S. line, 71ks N. of corner to sec<sup>t</sup>s 3, 4, 9 and 10, from which I run,

N.  $89^{\circ} 53' W.$  on a true line bet. sec<sup>t</sup>s 4 and 9 over high plateau

Descend on N. slope.

I set a sandstone 16 x 14 x 5 in., 10 in. in ground for N. N.E. corner, marked the top N. side, and raised a stone mound 2 ft. base, 1  $\frac{1}{2}$  ft. high. N. of corner. Pit important

Enter deep ravine; drains N.

Leave ravine, ascend.

58.75 I pass ridge bear N.

Follows drains N. 10° W.

Small ravine drains N.

From corner to sec<sup>t</sup>s 4, 5, 8 and 9.

Land, very broken, mountainous.  
Soil. 32<sup>nd</sup> rate.

Timber, a few pine and cedar

Mountainous on 70.38 chs.  
~~17.35 chs. at 100.00 ft. long. On 77-19-63. on decl. are  
the following latitudes 39° 45' 41'~~

From the corner to sec<sup>t</sup>s 4, 5, 8 and 9 I sight to flag 17.35 chs. S.  $0^{\circ} 3' E.$  of said corner, reverse telescope, and run N.  $0^{\circ} 3' W.$  on a random line bet. sec<sup>t</sup>s 4 and 5. Set temp.  $\frac{1}{4}$  sec. corner.

Intersect N. 73<sup>rd</sup> of T.p. 3 chs. E. of cor. to sec<sup>t</sup>s 4, 5, 32 and 33, which is a sandstone 10 x 6 x 6 in. above ground marked and witnessed as described by Surveyor General. I hence run S.  $0^{\circ} 4' E.$  on a true line bet. sec<sup>t</sup>s 4 and 5.

Ascend N. slope.

## Subdivisions Ch. 13 S., R. 10 E.

| Chs.  |                                                                                                                                                                                                              |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 22.00 | Enter top of mountain.                                                                                                                                                                                       |
| 28.50 | Head of a wash drains S. W.                                                                                                                                                                                  |
| 34.00 | Ridge bears S. W. and N. E., descend.                                                                                                                                                                        |
| 40.32 | Set a sandstone, 16 x 11 x 6 in., 10 in. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face and raised a stone mound 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of corner. No trees at hand. |
| 58.50 | Ravine drains S. W., ascend rocky ridge.                                                                                                                                                                     |
| 80.32 | The corner to sec <sup>s</sup> 4, 5, 8 and 9.<br>Land, very broken, and steep, mountain slopes.<br>Soil, 3 $\frac{1}{2}$ in. rate.<br>Timber, a few scattering pines.<br>Mountainous on 80, 32 chs.          |

July 27<sup>th</sup>, 1901.

July 29, 1901, at 8.00 A. M., local mean time, I set off  $39^{\circ}41'N.$  on the latitude arc, and  $18^{\circ}49'W.$  on the declination arc, and determine a true meridian with my solar, at the cor. to secs 17, 18, 19, and 20, whence I run  
 $N. 0^{\circ}3' W.$  bet. sec<sup>s</sup> 17 and 18.

|       |                                                                                                                                                                                                                                                                                                     |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 8.75  | Gulch wash drains N.                                                                                                                                                                                                                                                                                |
| 29.90 | Gulch wash drains S. W.                                                                                                                                                                                                                                                                             |
| 39.46 | Top of ledge ridge bears N. E. and S. W.                                                                                                                                                                                                                                                            |
| 40.00 | Set a sandstone 28 x 8 x 4 in., 26 in. in ground for $\frac{1}{4}$ sec. cor. marked $\frac{1}{4}$ on N. face, and raised a stone mound 2 ft. base, 1 $\frac{1}{2}$ ft. high N. of corner, from which, a pine 10 in. dia. bears N. $40^{\circ}E.$ 23 lks. distant, marked $\frac{1}{4}$ S. 17, B. T. |
|       | A cedar 1.2 in. dia. bears N. 16 lks. distant, marked $\frac{1}{4}$ S. 18, B. T.                                                                                                                                                                                                                    |
| 50.90 | Bottom of Helper Canon, drains S. W.                                                                                                                                                                                                                                                                |
| 56.00 | Measure with 500 ft. tape to top of first ledge.                                                                                                                                                                                                                                                    |
| 60.00 | Bottom of Helper Canon drains S. E.                                                                                                                                                                                                                                                                 |
| 62.00 | Top of grey ledge.                                                                                                                                                                                                                                                                                  |
| 75.85 | Top uppermost cliffs, enter broken top of mountains.                                                                                                                                                                                                                                                |

## Subdivisions Ch 13 of R. 10 E.

chrs

8.000

Set a sandstone 16x14x4 in., 11 m. w. w. ground for corner to sec<sup>2</sup> 7, 8, 17 and 18, <sup>2 ft. base, 1 1/2 ft. high, west of corner, pits immediately</sup> marked with 4. N. 1/4 in. S. 15 m. E. edges, and raised a mound of stones <sup>from which</sup>

A pine 9 in. dia. bears S. 52 1/2° E., 14 lks. distant, marked T. 13 S. R. 10 E., S. 17, B. J.

A pine 1.3 in. dia. bears N. 9 1/4° W. 37 lks. distant, marked T. 13 S. R. 10 E., S. 7 1/2 B. J.

Land, face of bluffs.

Soil, 4 in. rate, all rock.

Timber, a few cedar and pine.

Mountainous on 80.00 chrs.

July 29<sup>th</sup>, 1901.

From the corner to sec<sup>2</sup> 7, 8, 17 and 18, I sight to a flag at the 1/4 sec. corner between sec<sup>2</sup> 17 and 18 and turn an angle of 90° 3' to the East, whence I run

N. 89° 54' E. on a random line bet. sec<sup>2</sup> 8 and 17.

40.00

Set. temp. 1/4 sec. corner.

7.996

I intersect N. and S. line at corner to sec<sup>2</sup> 8, 9, 16 and 17, from which I run S. 89° 54' W. on a true line between sec<sup>2</sup> 8 and 17.

15.00

Ridge between Panther Cañon and Helper Cañon, bears N.W. and S.E., descend

38.00

Bottom of ravine, drains S. W.

39.00

Bottom of ravine, drains S.

39.98

Set a sandstone 16x12x4 in., 10 m. w. w. ground for 1/4 sec. corner marked 1/4 on N. face, and raised a stone mound, 2 ft. base, and 1 1/2 ft. high, north of corner from which

A pine 1.0 in. dia. bears N. 15° W. 30 lks. distant, marked 1/4 S. 8, B. J.

A cedar 5 in. dia. bears S. 11° E., 52 lks. distant, marked 1/4 S. 17, B. J.

58.00

Gulch drains S. ascend abruptly.

77.00

S. W. point of ridge

79.96

The corner to sec<sup>2</sup> 7, 8, 17 and 18

Land, broken mountain slopes

Dut divisions Sp. 13 & 12. 10 E.

obs.

Obs. 5<sup>th</sup> and 4<sup>th</sup> rate.

Tumbers, a few pine and cedar.

Mica-schistous mts 79. 96 chs.

July 30<sup>th</sup>, 1901.

From the cor. to sec<sup>s</sup> 7, 8, 17 and 18, I sight  
to a flag at the  $\frac{1}{4}$  sec. cor. between sec<sup>s</sup>  
17 and 18, and turn an angle of 59 $^{\circ} 50'$   
West, thence I run.

d. 89 $^{\circ} 47'$  N. on a random line bet. sec<sup>s</sup> 7 and 18.

Obs. 8 ft. a temp. to sec. corner.

Obs. I intersect N. Bdg. of Sp. 14 like S. of corner  
to sec<sup>s</sup> 7, 8, sec<sup>s</sup> 18, which is a sand-  
stone 10+10+5 ins. above ground, inverted  
and witnessed as described by Surveyor  
or General, thence I run

N. 89 $^{\circ} 55'$  E. on a true line bet. sec<sup>s</sup> 7 and 18  
ascend on gentle S. W. slope.

Obs 10 I let a sandstone 26 x 20 x 5 ins., 18 in. in  
ground for  $\frac{1}{2}$  sec. corner marked  $\frac{1}{2}$  on  
N. side. and raised at stone mound 20  
ft. first,  $1\frac{1}{2}$  ft. high north of corner.  
from which

A pine 8 in. dia. bears N. 20 $^{\circ}$  W. 23 lbs.  
distant marked to S. 18, 13. J.

A pine 6 in. dia. bears N. 30 $^{\circ}$  E. 18.5 lbs.  
distant marked to S. 7, 73. J.

Obs 11 Ridge bears 78. and S. descended.

Obs. 12 Rock Juliet heads N. W. drains S. to  
into Kippe River, ascnd.

- Obs 13 I fix corner to sec<sup>s</sup> 7, 8, 17 and 18  
as per broken mountain slope.  
I let 3<sup>rd</sup> rate.

Tumbers, a few pine and cedar.  
Mica-schistous mts 86. 10 chs.

July 31<sup>st</sup>, 1901.  
My way, solar condition improved

From the corner to sec<sup>s</sup> 7, 8, 17 and  
18, I sight to a flag at the  $\frac{1}{4}$  sec. cor.  
between sec<sup>s</sup> 17 and 18, reverse tele-

# Blackwater Falls

14

safe and that we

## Chlorophyll a fluorescence

- 4.00 alt. time = sec. 20

1987 Table in the following paper

*1866* *6* *1*

*good*, *whether* *it's* *right* *or* *wrong*.

*aberrant* *specimens* *of* *the* *genus* *Leucosticte*

*and all the world has seen*

from which it comes.

86-1586 and 86-1587 - 100

Received over due library books

Mr. Notton of India was present.

1950 Wedge Gullion 1000

28.00 ~~Whit~~ 35.00 1.6

387 On wedge front 47° 10' S. Lat.

12 We find our way back to the old place.

March 1st 1863 - The first day of the month.

These names I will add to my list.

and the more I am the more I like it.

5650. *Pulicaria* (var. 3)

20150 William Lawrence 1  
20150 William Lawrence 2

1772 White House, Boston, Mass.

Left 100 m. S. west of 1000 ft. level.

1970-1971  
1971-1972

*W. G. Smith*

Mr. J. C. H. Smith, Esq., of Boston, Mass., has written a paper on the subject of "The History of the Slave in the United States," which will be published in the "Atlantic Monthly" for January.

19. *Leucosia* *leucostoma* *leucostoma* *leucostoma*

longer, and taller, but off-springs are shorter, and all

From a point in the village a road leads westward through a valley to the village of Tschirnau, a small community of about one hundred souls. The road is paved with stones and leads through a valley to the village of Tschirnau, a small community of about one hundred souls.

10. The following table gives the number of hours per week spent by students in various activities.

*1888-1890* *1890-1891*

وَالْمُؤْمِنُونَ الْمُؤْمِنَاتُ وَالْمُؤْمِنُونَ الْمُؤْمِنَاتُ

## Subdivisions App 13-21, Pg 103.

|       |                                                                                                                                                                                                                          |
|-------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | I run                                                                                                                                                                                                                    |
|       | S 89° 58' N. on a true line bet. sec't 5 and 8                                                                                                                                                                           |
|       | Descend N. W. slope                                                                                                                                                                                                      |
| 5.00  | Hollow draws northerly, thence over<br>rolling N. slope                                                                                                                                                                  |
| 26.50 | Bottom of Deep Cañon draws S. W.                                                                                                                                                                                         |
| 34.00 | Small rocky gully draws S.                                                                                                                                                                                               |
| 39.50 | S. W. point of high ridge.                                                                                                                                                                                               |
| 40.10 | Set a sandstone 24 x 10 x 4 in., 18 in. in<br>ground for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ m.<br>N. face and raised a mound of stone<br>2 ft. base, 1 $\frac{1}{2}$ ft. high north of corner<br>from which |
|       | A pine 1.2 in. dia. bears N., 85° E., 39.0ks<br>distance marked $\frac{1}{4}$ S. 5, B.T.                                                                                                                                 |
|       | No other trees within limit                                                                                                                                                                                              |
| 50.95 | Panther Cañon, draws S. W.; ascend over<br>broken S. E. slope                                                                                                                                                            |
| 70. - | <small>young trees &amp; shrubs, some timber trees east side.</small>                                                                                                                                                    |
| 80.20 | The corner to secs 5, 6, 7 and 8                                                                                                                                                                                         |
|       | Barren, broken mountain slopes and<br>sandstone ledges                                                                                                                                                                   |
|       | Soil, 3 <sup>rd</sup> and 4 <sup>th</sup> rate                                                                                                                                                                           |
|       | Timber, a few pine and cedar.                                                                                                                                                                                            |
|       | Mountainous on 80.20 chs.                                                                                                                                                                                                |
|       | August 2 <sup>nd</sup> , 1901.                                                                                                                                                                                           |

Sidewinders Tp. 13 S., R. 10 E.

### General Description

The additional survey made by me in this Township, embraces the face of the Book Cliffs or Roan Mountains which are cut through by numerous deep canyons, and lesser breaks, whose general drainage is South, thus leaving the country a net-work of canyons, gulches, ravines and ridges. The ridges have an elevation of about 2000 ft. above Castle Valley which lies South of same. The canyons, gulches and ravines have a depth of from about 50 ft. at their head, to 1500 ft. near their mouth.

The land bears but very little timber, consisting principally of scrub pines and cedars, suitable for fuel if it were more accessible.

The tops of the ridges and the canyons and gulches at their heads are covered with fine bunch grass, which is excellent for grazing.

There are several veins or beds of a good quality of lignite or bituminous coal, which run through the Township from East to West and show more or less signs of existing in sec<sup>s</sup> 5, 6, 7 and 8, in the south half of the following sections, 9, 10, 11, and 12, and the North half of the following sec<sup>s</sup>, 13, 14, 15, 16, 17 and 18, which sec<sup>s</sup> and portions of sec<sup>s</sup> are therefore returned as coal land.

There are two tunnels run for coal in N.W.<sup>4</sup> of N.W.<sup>4</sup> of sec<sup>8</sup>, the eastern most of which shows a good vein of coal about 4 ft. thick. Near the center of sec<sup>18</sup>, on the East side of the

Subdivisions Ch. 130, R. 10 E.

bluff, a 10 ft. vein of pure solid coal is exposed. In the N.W.<sup>4</sup> of sec. 16, a vein of solid and pure coal of about 20 ft. thickness, is exposed by a slide. In the S.W.<sup>4</sup> of sec. 16 is a coal mine, called the Aberdeen Mine, having a vein 20 ft. thick of solid coal, worked by people from Price, Carbon Co., Utah which furnishes nearly all the coal used in that neighborhood. The S.W.<sup>4</sup> sec. 11 shows five different openings on coal, from 6 to 12 ft. thick, and among the rest, one opening on anthracite coal. There are also two openings of coal in S.W.<sup>4</sup> sec. 12, all of which shows that the veins extend throughout the township from East to West.

Excepting the small spring in sec. 7, there is no water in the part of the township surveyed.

There is a frame house in N.E.<sup>4</sup> sec. 15, which was occupied by a family named Minchey, at the time of survey. Mr. M. C. Wilson, one of the applicants for survey was also on the ground, working in the Wilson tunnel, getting out coal and living part of the time at the tunnel, and part of the time at the above frame house. The frame house is worth about \$250, the road built by Mr. Wilson to said tunnel is worth about \$350, the improvements at the mine, consisting of tramways, chutes, tunnels, and so forth, are worth about \$150, making a total value of \$350.

Mr. A. Ballinger, one of the applicants for survey, has a log

Subdivisions Tp. 13 S., R. 10 E.

house at the Aberden Mine in  
S. W. 1/4 sec. 10 worth about \$50,  
a road to the mine worth about  
\$350, a fence worth about \$50. The  
cost of the improvements at the mine  
are difficult to estimate, but I  
should judge \$3,000. would amply  
cover them.

Mr. S. H. Gilson, one of the  
applicants for survey, has a log  
house in N. W. 1/4 sec. 13, value about  
\$150, beside this he has built a  
road to the canon worth about  
\$350, total value \$500. There are no other  
settlers in the part of the Township surveyed.

Augustus D. Ferror

U. S. Deputy Surveyor

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# FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by Augustus D. Ferron, United States Deputy Surveyor, to assist in running, measuring, and marking the lines and corners described in the foregoing field notes of the survey of the fractional subdivisions of Th 13 S, R 10 E, Salt Lake Meridian, Utah, showing the respective capacities in which they acted:

James Jones, Chairman.  
Frank Branch, Chairman.  
Will Ferron, Moundman.  
Fred C. Ferron, Moundman.  
Fred C. Ferron, Axman.  
Daln Cleavel, Axman.  
James P. Alfred, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted A. D. Ferron, United States Deputy Surveyor, in surveying all those parts or portions of the fractional subdivisions of Th 13 S, R 10 E,

of the Salt Lake meridian, State of Utah, which are represented in the foregoing field notes as having been surveyed by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for Utah.

James Jones, Chairman.  
Frank Branch, Chairman.  
Will Ferron, Moundman.  
Fred C. Ferron, Moundman.  
Fred C. Ferron, Axman.  
Daln Cleavel, Axman.  
James P. Alfred, Flagman.

Subscribed and sworn to before me this

3<sup>rd</sup>

day of August, 1901.



W. W. Wadsworth

Clerk of Clerk  
Calm to City

BOOK 12

**FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.**

I, Augustus D. Ferron, United States Deputy Surveyor, do solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 14th day of May, 1901, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of Fractional Subdivisions of Township No. 13 S., R. 10 E. Salt Lake Meridian, of the meridian, in the State of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Augustus D. Ferron  
United States Deputy Surveyor

Subscribed by said Augustus D. Ferron, and sworn to before me  
this 16 day of September, 1901.

W.H. Anderson

Comt. Clerk

Cairns County, Utah

**APPROVAL**

**OFFICE OF THE UNITED STATES SURVEYOR GENERAL.**

Salt Lake City, Utah June 23 1902, 1902

The foregoing field notes of the survey of The Fractional Subdivisions of Township 13 South Range 10 East of the Salt Lake Base and Meridian, Utah, executed by

executed by Augustus D. Ferron,  
under his contract No. 246, dated May 4th 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

Edward H. Anderson  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

Edward H. Anderson  
United States Surveyor General

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BOOK A-281

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BOOK "A".

# FIELD NOTES

OF THE SURVEY OF THE

B-A-S-T B-O-U-N-D-A-B-Y

of

Township No. 5 North, Range No. 3 East.

Of the Salt Lake Base and Meridian,

in the State of Utah,

AS SURVEYED BY

Harvey D. Heint, United States Deputy Surveyor,

Under his Contract No. 248, dated November 12th, 1801

Survey commenced June 2nd, 1802

Survey completed June 4th, 1802

6-151

# 6-06-28

**NAMES AND DUTIES OF ASSISTANTS.**

CHRISTIAN SCHMALZ ..... Chairman

GEORGE A. NEEDHAM ..... " "

WILLIAM ROBERTS ..... Moundman

CORNELIUS HUNT ..... AXMAN

PETER H. PETERSON ..... Flagman

600 same size AXM

6-101

,600 to other side of

J. J. Jell. C. 1940/1

.4000 preferred

.800

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page 351 and  
352 do not  
exist

BOOK A-281

INDEX DIAGRAM.

*Township* \_\_\_\_\_, *Range* \_\_\_\_\_

|    |    |    |    |    |    |
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| 6  | 5  | 4  | 3  | 2  | 1  |
| 7  | 8  | 9  | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 20 | 29 | 28 | 27 | 26 | 25 |
| 21 | 22 | 23 | 24 | 25 | 26 |

*Meanders Page* \_\_\_\_\_

## PRELIMINARY OATHS OF ASSISTANTS.

WE, CHRISTIAN SCHWALZ

and GEORGE A. NEEDHAM

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey

the EAST BOUNDARY OF TOWNSHIP NO. 5 North, Range NO. 3 EAST. of the  
Salt Lake Base & Meridian. *Christian Schwatz**Christian Schwatz*, Chainman*George A. Needham*, Chainman

Subscribed and sworn to before me this 2nd.

day of June, 1802



U.S. DEPUTY SURVEYOR

WE, WILLIAM ROBERTS

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey

the EAST BOUNDARY OF TOWNSHIP NO. 5 NORTH, RANGE NO. 3 EAST. of the  
Salt Lake Base & Meridian. *William Roberts*

Moundman

Moundman

Subscribed and sworn to before me this 2nd.

day of June, 1802



U.S. DEPUTY SURVEYOR

WE, CORNELIUS HUNT

and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey

the EAST BOUNDARY OF TOWNSHIP NO. 5 NORTH, RANGE NO. 3 EAST. of the  
Salt Lake Base & Meridian. *Cornelius Hunt*

Axman

Subscribed and sworn to before me this 2nd.

day of June, 1802



U.S. DEPUTY SURVEYOR

I, PETER H. PETERSON

, do solemnly swear that I will well and

perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of THE EAST BOUNDARY OF TOWNSHIP NO. 5 NORTH, RANGE NO. 3 EAST. of the  
Salt Lake Base & Meridian. *Peter H. Peterson*

Flagman

Subscribed and sworn to before me this 2nd.

day of June, 1802



U.S. DEPUTY SURVEYOR

-I-

EAST BOUNDARY OF T.5 N.R.3 E.

Survey commenced June 2, 1902 and executed with a W. & L.E. Gurley light mountain transit, No. --; the horizontal limb having two double vernier's placed opposite to each other and reading to single minutes of arc, which is also the least count of the verniers of the latitude and declination arcs.

The instrument was examined, tested on the true meridian at Salt Lake City, found correct, and was approved by the surveyor general for Utah, May 26, 1902.

I examine the adjustments of the transit, and correct the level and collimation errors; then to test the solar apparatus, by comparing its indications resulting from solar observations made during a.m. and p.m. hours, with a true meridian determined by observations on Polaris, I proceed as follows:

At the Standard closing corner for Ts.4 and 5 N., R.3 E., on the First Standard Parallel North, in approximate Latitude  $41^{\circ} 06' 56''$  N., Longitude  $III^{\circ} 33' 05''$  W., which is a cobble stone 10x8x8 ins. above ground, firmly set, marked as described by the surveyor general.

At 4 p.m., l.m.t., I set off  $41^{\circ} 07' N.$ , on the lat.arc;  $22^{\circ} II' N.$ , on the decl.arc; and determine with the solar a true meridian and mark a point thereof, on a stone firmly set in the ground, 5 chs. N. of the cor.

June 2, 1902.

---

June 3: At 2 h.44 m.a.m., l.m.t., I observe Polaris at eastern elongation, in accordance with Manual of Instructions, and mark a point in the line thus determined, on a plug driven in the ground, 5 chs. N. of my station.

At 6 a.m., l.m.t., I lay off the azimuth of Polaris,  $I^{\circ} 37'$  to the west, and mark the True Meridian thus determined, by cutting a small groove in the stone.

## EAST BOUNDARY OF T.5 N.R.3 E. continued.

set June 2, on which the true meridian falls on the mark determined by the solar.

At 8 a.m., l.m.t., I set off  $41^{\circ} 07' N.$ , on the lat.arc.  $22^{\circ} 16' N.$ , on the decl.arc; the true meridian thus determined with the solar, falls on the point found by the p.m. and Polaris observations; therefore, I conclude that the adjustments of the instrument are satisfactory.

The magnetic bearing of the true meridian, at 8 h.30 m., a.m., is  $N. 16^{\circ} 34' W.$ ; the angle thus determined, reduced by the table, page 100, gives the mean mag. decl.  $16^{\circ} 29' E.$

To find the course of the E.bdy. of T.5.N.R.3.E., I retrace the west bdy. of T.5.N.R.4 E.

I proceed as follows:

From the S.W. corner of T.5.N.R.4 E., on the First Standard Parallel North, which is a red sandstone  $10 \times 8 \times 8$  ins. above the ground, firmly set, marked as described by the surveyor general, I run North, on a blank line, along the W.bdy. of sec.31. at 10.30 chs., the Standard closing cor. for Ts.4 and 5 N., R.3 E., heretofore described, bears W. 3 lks.dist. at 40.02 chs., the  $\frac{1}{4}$  sec.cor. for sec.31, which is a boulder  $12 \times 9 \times 9$  above ground, marked as described by the surveyor general, bears W. 13 lks.dist. and at 80.05 chs., the cor. of secs.30 and 31, which is a boulder  $12 \times 6 \times 5$  ins. above ground, marked as described by the surveyor general, bears W. 26 lks.dist.

The course of this line is therefore  $N. 0^{\circ} 11' W.$  I offset over the corner and continue the line, North, on a blank line, along the W.bdy. of sec.30. at 39.99 chs. the  $\frac{1}{4}$  sec.cor. for sec.30, which is a boulder  $10 \times 8 \times 8$  ins. above ground, marked as described by the surveyor general, bears W. 18 lks.dist. and at 80.04 chs., the cor. of secs.19 and 30, which is a boulder  $10 \times 10 \times 8$  ins. above ground, marked as described by the surveyor general, bears W. 36 lks.dist.

-3-

EAST BOUNDARY OF T. 5 N.R. 3 E. continued.

The course of this line is therefore N.  $0^{\circ} 15'$  W.

I offset over the corner and continue the line.

North, on a blank line, along the W.bdy. of sec.19.

at 40.08 chs., the  $\frac{1}{4}$  sec.cor. for sec.19, which is a boulder 10x10x8 ins. above ground, marked as described by the surveyor general, bears W. 40 lks.dist. and at 80.08 chs., the cor.of secs.18 and 19, which is a boulder 10x10x10 ins. above ground, marked as described by the surveyor general, bears W. 79 lks.dist.

The course of this line is therefore N.  $0^{\circ} 34'$  W.

I offset over the corner and continue the line.

North, on a blank line, along the west bdy. of sec.18.

at 40.01 chs., the  $\frac{1}{4}$  sec.cor. for sec.18, which is a boulder 10x8x6 ins. above the ground, marked as described by the surveyor general, bears W. 37 lks. dist. and at 80.02 chs., the cor.of secs.7 and 18 which is a boulder 10x10x10 ins. above the ground, marked and witnessed as described by the surveyor general, bears W. 75 lks.dist.

The course of this line is therefore N.  $0^{\circ} 32'$  W.

I offset over the corner and continue the line.

North, on a blank line, along the west bdy. of sec.7.

at 39.96 chs., the  $\frac{1}{4}$  sec.cor. for sec.7, which is a boulder 10x 8x6 ins. above the ground, marked as described by the surveyor general, bears W. 28 lks. dist. and at 80.05 chs., the cor.of secs.6 and 7, which is a boulder 12x12x8 ins. above the ground, marked and witnessed as described by the surveyor general, bears W. 56 lks.dist.

The course of this line is therefore N.  $0^{\circ} 24'$  W.

I offset over the corner and continue the line.

North, on a blank line, along the west bdy. of sec.6.

at 40.08 chs., the  $\frac{1}{4}$  sec.cor. for sec.6, which is a boulder 9x8x6 ins. above the ground, marked as described by the surveyor general, bears W. 12 lks.dist., at 80.12 chs., the cor.of T8.5 and 6 N. R.4 E., which is

EAST BOUNDARY OF T.5 N. R.3 E. continued

|       |                                                                                                                                                                                                                                                                                              |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | a boulder 12x12x8 ins, above the ground, marked and witnessed as described by the surveyor general, bears W. 25° lks.dist.                                                                                                                                                                   |
|       | The course of this line is therefore N. 0° 10' W.                                                                                                                                                                                                                                            |
|       | I offset over the corner and run North, on a blank line, along the west bdy. of sec.31, T.6 N. R.4 E. and at 16.22 chs., the closing cor. for Ts. 5 and 6 N. , R. 3 E., which is a boulder 10x8x6 ins. above the ground, marked as described by the surveyor general, bears W. 5° lks.dist., |
|       | The course of this line is therefore N.0° 10'W.                                                                                                                                                                                                                                              |
|       | Thence I run S.0° 10'E., along the E.bdy.of sec.I.                                                                                                                                                                                                                                           |
|       | Descend over stony land.                                                                                                                                                                                                                                                                     |
| 10:00 | Bottom of ravine, 75 ft. deep, course S.E.                                                                                                                                                                                                                                                   |
|       | Enter heavy aspen and scattering pine timber.                                                                                                                                                                                                                                                |
| 16.22 | Intersect cor. of Ts.5 and 6 N. R.4 E. heretofore described.                                                                                                                                                                                                                                 |
| 31.50 | Top of ridge , bears N.W. and S.E., descend.                                                                                                                                                                                                                                                 |
|       | Leave pine timber.                                                                                                                                                                                                                                                                           |
| 46.28 | Set a trachyte stone, 14x10x6 ins.9 ins.in the ground for $\frac{1}{4}$ sec.cor.on E.bdy.of sec.I, markeded $\frac{1}{4}$ S on W. face. from which                                                                                                                                           |
|       | An aspen 6 ins.diam.bears S.28°W.63 lks.dist.marked $\frac{1}{4}$ S.I,B.T.                                                                                                                                                                                                                   |
|       | An aspen 10 ins.diam.bears N.6°W.25 lks.dist.marked $\frac{1}{4}$ S.I,B.T.                                                                                                                                                                                                                   |
| 54.00 | Leave aspen timber, bears E.and W.                                                                                                                                                                                                                                                           |
|       | Enter dense artemisia.                                                                                                                                                                                                                                                                       |
| 56.26 | Intersect $\frac{1}{4}$ sec.cor.on the W.bdy.of sec.6, T.5 N.R.4 E. heretofore described.                                                                                                                                                                                                    |
|       | I destroy all marks pertaining to T.5 N.R.3 E.                                                                                                                                                                                                                                               |
|       | From this cor.a dipping corral belonging to Chris. Schmalz of Uintah and George Roberts of Henefer bears S.80°W. 2.50 chs.dist.                                                                                                                                                              |
| 62.00 | Old wagon road,bears S.W. and N.E.                                                                                                                                                                                                                                                           |
| 74.00 | Enter heavy aspen timber,bears N.W. and S.E.                                                                                                                                                                                                                                                 |

EAST BOUNDARY OF T.5 N.R.3 E. continued.

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| chains<br>81.00 | Right -hand Fork of Pine Creek 5 lks.wide,6 ins.deep<br>in canon 150 ft.deep, course S.E.<br>Leave aspen timber enter dense mountain willows.<br>ascend.                                                                                                                                                                                                                                                                                                                                               |
| 84.50           | Enter heavy aspen timber,bears N.W.and S.E.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 86.28           | On top of spur,projects E.<br>Set a trachyte stone 18x15.12 ins.12 ins.in the<br>ground for cor.of secs.I and I2,marked with 5 notches<br>on the S.and I notch on the N.edges,from which<br>An aspen 4 ins.diam.bears N.32°W.III lks.dist.marked<br>T.5 N.R.3 E.S.I B.T.<br>An aspen 5 ins.diam.bears S.48°W.I4 lks.dist.marked<br>T.5 N.R.3 E.S.I2 B.T.<br>Land mountainous.<br>Soil stony and gravelly, 3rd.rate.<br>Timber aspen and scattering pine on 53.28 chs.<br>Mountainous land on 86.28chs. |
|                 | June 3: At this cor I set off 22° 17' N.on the decl.<br>arc;and at II h.58 m. a.m.,l.m.t.observe the<br>sun on the meridian;the resulting lat.is<br>41° 11' N.                                                                                                                                                                                                                                                                                                                                         |
| 6.00            | S.0° 10'E. along the E.Bdy.of sec.I2.<br>Descend through heavy aspen timber.<br>Creek 5 lks.wide,4 ins.deep,in ravine 150 ft.deep,<br>course N.E.<br>Leave aspen timber.<br>Begin steep ascent through scattering live pine and<br>fallen dead pine.                                                                                                                                                                                                                                                   |
| 10.08           | Intersect cor.of secs.6 and 7,T.5 N.R.4 E.heretofore<br>described.I destroy marks pertaining to T.5 N.R.3 E.<br>Thence I run<br>S.0° 24'E along the E.Bdy.of sec.I2.                                                                                                                                                                                                                                                                                                                                   |
| 18.00           | Top of ridge,bears N.W.and S.E.<br>Leave pine timber.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 22.00           | Enter heavy aspen timber,bears N.W.and S.E.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |

EAST BOUNDARY OF T. 5 N.R.3 E. continued.

| CHAINS                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 28.00                                | Leave heavy aspen timber, enter scattering dwarf aspens, oak and artemisia.                                                                                                                                                                                                                                                                                                                                                                                   |
| 40.00                                | Set a trachyte stone 15x12x6 ins. 10 ins. in the ground for $\frac{1}{4}$ sec.cor.on E.Bdy.of sec.I2, marked $\frac{1}{4}$ S. on W.face, from which<br>An aspen 6 ins.diam.bears N.3°W.65 lks.dist.marked<br>$\frac{1}{4}$ S.I2 B.T.<br>An aspen 3 ins.diam.bears N.60° 30'W.33 lks.dist.<br>marked $\frac{1}{4}$ S.I2 B.T.                                                                                                                                   |
| 42.00                                | Leave aspen timber.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 50.15                                | Intersect $\frac{1}{4}$ sec.cor.on the W.Bdy.of sec.7,<br>T.5 N.R.4 E. heretofore described.<br>I obliterate all marks pertaining to T.5 N.R.3 E.                                                                                                                                                                                                                                                                                                             |
| 50.50                                | Spring branch 3 lks.wide, 3 ins.deep, in ravine 150 ft.deep, course S.E.<br>Ascend through heavy aspens, scattering pine and mountain willows.                                                                                                                                                                                                                                                                                                                |
| 70.00                                | Top of ridge, bears E.and W.<br>Leave willows and pine timber.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                    |
| 80.00                                | Set a trachyte stone 14x12x6 ins. 9 ins. in the ground for cor.of secs.I2 and I3, marked with 4 notches on the S.and 2 notches on the N.edges, from which<br>An aspen 6 ins.diam.bears S.77°W.65 lks.dist.marked<br>T.5 N.R.3 E.S:I3 B.T.<br>An aspen 6 ins.diam.bears N.67°W.66 lks.dist.marked<br>T.5 N.R.3 E.S.I2 B.T.<br>Land mountainous.<br>Soil gravelly 3rd.rate.<br>Timber aspen and scattering pine on 67:50 chs.<br>Mountainous land on 80.00 chs. |
| <hr/>                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| S.0° 24'E.along the E.Bdy.of sec.I3. |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Descend through heavy aspen timber.  |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 10.11                                | Intersect cor.of secs.7 and I8, T.5 N.R.4 E.                                                                                                                                                                                                                                                                                                                                                                                                                  |

EAST BOUNDARY OF T.5 N.R.3 E. continued.

CHAINS

heretofore described.

I destroy all marks pertaining to T.5 N.R.3 E.

Thence I run

S.0° 32' E..along the E.Bdy.of sec.I3.

II.70 Bottom of ravine,200 ft.deep, course E.

Enter scattering pine timber.

I8.30 Top of ridge bears E.and W.

Leave timber,enter dense atemisia and oak brush.  
steep descent.

32.50 Bottom of Black Gulch,300 ft.deep, course E.

Begin steep ascent through aspens, laurel, bear-brush,  
wild cherry and heavy pine timber.

40.00 Set a trachyte stone 15x12x6 ins.10 ins.in the ground  
for  $\frac{1}{4}$  sec.cor.on E.Bdy.of sec.I3.marked  $\frac{1}{4}$  S.on W.  
face,from which

A pine 6 ins.diam.bears S.29°W.26 lks.dist.marked  
 $\frac{1}{4}$  S.I3 B.T..

An aspen 3 ins.diam.bears N.67°W.66 lks.dist.marked  
 $\frac{1}{4}$  S.I3 B.T.

46.20 Top of ridge bears E.and W.

Leave timber.

Descend through dense artemisia and oak brush.

50.12 Intersect  $\frac{1}{4}$  sec.cor.on the W.Bdy.of sec.I8.

T.5 N.R.3 E. heretofore described.

I obliterate all marks pertaining to T.5 N.R.3 E.

69.00 Spring branch 1 lk.wide,source 3 chs.N.W.

Bottom of ravine 300 ft.deep, course E.

Enter heavy aspen and scattering pine timber.

80.00 Set a trachyte stone 18x8x8 ins. 12 ins.in the ground  
for cor.of secs.I3 and 24,marked with 3 notches on  
the N.and S.edges,from which

An aspen 2 ins.diam.bears S.35°W.18 lks.dist.marked  
T.5 N.R.3 E.S.24 B.T.

An aspen 2 ins.diam.bears N.46°W.15 lks.dist.marked  
T.5 N.R.3 E.S.I3 B.T.

Land mountainous.

EAST BOUNDARY OF T.5 N.R.3 E. continued.

|        |                                                                                                                                                                                                                      |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | Soil gravelly 3rd.rate.<br>Timber aspen and scattering pine on 42.80 chs.<br>Mountainous land on 80.00 chs.                                                                                                          |
|        | June 3, 1902.                                                                                                                                                                                                        |
|        | June 4: At 7 a.m.l.m.t. I set off 41° 10' N. on the lat. arc; 22° 23' N. on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 13 and 24.                                              |
|        | Thence I run S.0° 32' E. along the E.Bdy. of sec. 24.                                                                                                                                                                |
|        | Ascend through heavy aspen and scattering pine timber.                                                                                                                                                               |
| 7.00   | Top of ridge bears N.W. and S.E.                                                                                                                                                                                     |
|        | Leave timber.                                                                                                                                                                                                        |
|        | Descend through dense artemisia and oak brush.                                                                                                                                                                       |
| 10.13  | Intersect cor. of secs. 18 and 19, T.5 N.R.4 E. heretofore described.                                                                                                                                                |
|        | I destroy all marks pertaining to T.5 N.R.3 E.                                                                                                                                                                       |
|        | Thence I run S.0° 34' E. along the E.Bdy. of sec. 24.                                                                                                                                                                |
| 11.00  | Enter dense dwarf aspens.                                                                                                                                                                                            |
| 17.00  | Leave aspens.                                                                                                                                                                                                        |
| 30.50  | Creek in Tom Condie's Hollow 10 lks. wide, 6 ins. deep, the canon is 300 ft. deep, course S.E.                                                                                                                       |
|        | Ascend through scattering aspens and willows.                                                                                                                                                                        |
| 40.00  | Set a trachyte stone 14x12x5 ins. 9 ins. in the ground for $\frac{1}{4}$ sec.cor. on E.Bdy. of sec. 24, marked $\frac{1}{4}$ S.on W. face, and raised a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, W.of cor. |
|        | Pits impracticable.                                                                                                                                                                                                  |
| 50.13  | Intersect $\frac{1}{4}$ sec.cor. on the W.Bdy. of sec. 19, T.5 N.R.3 E. heretofore described.                                                                                                                        |
|        | I destroy all marks pertaining to T.5 N.R.3 E.                                                                                                                                                                       |
| 58.50  | Top of spur projects E.                                                                                                                                                                                              |
|        | Leave timber.                                                                                                                                                                                                        |

EAST BOUNDARY OF T.5 N.R.3 E. continued.

- | CHAINS | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 67.50  | Bottom of ravine 150 ft. deep, course S.E.<br>Ascend through scattering aspen and pine timber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 70.40  | Top of ridge bears S.E. and N.W.,<br>Leave timber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|        | Begin steep descent through dense oak brush.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 79.90  | Spring branch 3 lks. wide, 4 ins. deep, in bottom of<br>ravine 300 ft. deep, course S.E.<br>Enter heavy aspen timber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 80.00  | Set a trachyte stone 20x12x8 ins. 15 ins. in the ground<br>for cor. of secs. 24 and 25, marked with 2 notches on<br>the S. and 4. notches on the N. edges, from which<br>An aspen 3 ins. in diam. bears S. 40° W. 52 lks. dist.<br>marked T.5 N.R.3 E.S.25 B.T.<br><br>An aspen 3 ins. diam. bears N. 26° W. 95 lks. dist. marked<br>T.5 N., R.3 E., S.24 B.T.<br><br>Land: mountainous.<br><br>Soil gravelly 3rd. rate.<br><br>Timber aspen and scattering pine on 36.00.<br>Mountainous land 80.00 chs.<br><br>June 4: At this cor. I set off 22° 24' N. on the decl.<br>arc; and at II h.58 m. a.m., l.m.t. observe the<br>sun on the meridian, the resulting lat. is<br>41° 09' N. |
|        | <hr/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | S.0° 34' E. along the E. Bdy. of sec. 25.<br>Ascend through dense willows, heavy aspen and scattering pine timber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 10.21  | Top of spur projects E.<br>Intersect cor. of secs. 19 and 30, T.5 N.R.4 E.<br>heretofore described.<br><br>I destroy all marks pertaining to T.5 N.R.3 E.<br>Thence I run<br>S.0° 15' E. along the E. Bdy. of sec. 25.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 16.50  | Bottom of ravine 100 ft. deep, course E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

TAX DRAFTING OF T.5 N.R.3 E. continued.

CHAINS Ascend.

22.00 Top of ridge bears N.W. and S.E.

Leave timber, enter dense artemisia and oak brush.

Descend.

37.50 Bottom of ravine 200 ft. deep, course E.

Enter heavy aspens and willows.

Ascend.

40.00 Set a trachyte stone 14x8x8 ins. 9 ins. in the ground  
for  $\frac{1}{4}$  sec.cor.on E.Bdy.of sec.25, marked  $\frac{1}{4}$  S.on W.  
face, from which

An aspen 2 ins.diam.bears N.72°W.39 lks.dist.marked  
 $\frac{1}{4}$  S.25 B.T.

An aspen 2 ins. diam. bears S.38°W. 27 lks.dist.  
marked  $\frac{1}{4}$  S.25 B.T.

48.40 Top of ridge bears E. and W.

Leave timber..

Descend.

50.26 Intersect  $\frac{1}{4}$  sec.cor.on the W. Bdy.of sec.30,  
T.5 N. R.4 E., heretofore described.

I destroy all marks pertaining to T.5 N. R.3 E.

60.50 Big Cottonwood Creek 3 lks.wide, 4 ins.deep,in  
bottom of canon 300 ft.deep, course E.

62.00 Enter aspens.

73.00 Leave aspens.

75.80 Top of ridge bears E. and W.

Descend through dense oak brush.

80.00 Set a trachyte stone 15x12x8 ins. 10 ins. in the ground  
for cor.of secs.25 and 38, marked with 1 notch on the  
S. and 5 notches on the N.edges, and raised a mound of  
stone 2 ft.base, 1 $\frac{1}{2}$  ft.high, W.of cor.

Pits impracticable.

Land mountainous.

Soil gravelly 3rd.rate.

Timber aspen on 43.80 cbs.

Mountainous land on 80.00 cbs.

EAST BOUNDARY OF T.5 N. R.3 E. continued.

|        |                                                                                                                                                                                                                                                       |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chains | S.0° 15'E.along the E.Bdy.of sec.36.                                                                                                                                                                                                                  |
| 10.25  | Descend through dense artemisia and oak brush.<br>Intersect cor.of secs.30 and 31,T.5 N. R.3 E.<br>heretofore described.                                                                                                                              |
|        | I destroy all marks pertaining to T.5 N. R.3 E.<br>Thence I run                                                                                                                                                                                       |
|        | S.0° 11'E. along the E.Bdy.of sec.36.                                                                                                                                                                                                                 |
| 13.00  | Bottom of ravine 200 ft.deep, course S.80° E.<br>Enter aspen timber, willows and scattering pine.                                                                                                                                                     |
| 20.00  | Top of spur projects N.E.<br>Leave timber.                                                                                                                                                                                                            |
|        | Descend.                                                                                                                                                                                                                                              |
| 25.00  | Spring branch 1 lk.wide,in bottom of ravine 200 ft.<br>deep course E.<br>Enter oak, maple aspen and scattering pine..                                                                                                                                 |
|        | Ascend.                                                                                                                                                                                                                                               |
| 36.50  | Top of ridge bears E.and W.<br>Leave timber.                                                                                                                                                                                                          |
|        | Descend,through dense oak and artemisia.                                                                                                                                                                                                              |
| 40.00  | Set a trachyte stone 14x14x8 ins.9ins. in the ground<br>for $\frac{1}{4}$ sec.cor.on E.Bdy.of sec.36,marked with $\frac{1}{4}$ S.<br>on the W.face, and raised a mound of stone 2 ft.base,<br>$1\frac{1}{2}$ ft.high,W.of cor.<br>Pits impracticable. |
| 50.25  | Intersect $\frac{1}{4}$ sec.cor. on the W.Bdy.of sec.31.<br>T.5 N. R.4 E., heretofore described.                                                                                                                                                      |
|        | I destroy all marks pertaining to T.5 N. R.3 E.                                                                                                                                                                                                       |
| 51.80  | Bottom of ravine 150 ft.deep, course S.E.<br>Enter scattering aspens and dense undergrowth.                                                                                                                                                           |
|        | Ascend.                                                                                                                                                                                                                                               |
| 77.00  | Top of ridge bears N.W.and S.E.<br>Leave timber.                                                                                                                                                                                                      |
|        | Descend.                                                                                                                                                                                                                                              |
| 80.00  | Intersect the Standard closing cor.to Ts.4 and 5 N.<br>R.3 E., heretofore described.<br>Land mountainous.<br>Soil gravelly 3rd.rate.                                                                                                                  |

EAST BOUNDARY OF T. 5 N. R. 3 E., concluded.

Timber aspens on 43.70 chs.

Mountainous land on 80.00 chs.

June 4, 1902.

BOUNDARIES OF T. 5 N. R. 3 E.

Latitudes, departures and closing errors.

| Line designated                | True bearing | Distance | Latitudes |         | Departures    |         |
|--------------------------------|--------------|----------|-----------|---------|---------------|---------|
|                                |              |          | N.        | S.      | E.            | W.      |
| First Standard Parallel North, |              |          |           |         |               |         |
| S.bdy.sec.36.                  | S.89° 50'W.  | - 81.48  | - 00.00   | - 00.24 | - 00.00       | - 81.48 |
| S.bdy.sec.35                   | S.89° 50'W.  | - 81.66  |           | - 00.24 |               | - 81.66 |
| S.bdy.sec.34                   | S.89° 48'W.  | - 81.31  |           | - 00.28 |               | - 81.31 |
| S.bdy.sec.33                   |              |          |           |         |               |         |
| First part                     | S.89° 50'W.  | - 40.85  |           | - 00.12 |               | - 40.85 |
| Second part                    | S.89° 30'W.  | - 40.36  |           | - 00.34 |               | - 40.36 |
| S.bdy.sec.32                   | S.89° 51'W.  | - 80.99  |           | - 00.21 |               | - 80.99 |
| S.bdy.sec.31                   | S.89° 53'W.  | - 81.35  |           | - 00.16 |               | - 81.35 |
| E.Bdy.of                       |              |          |           |         |               |         |
| T.5 N. R.3 E.                  |              |          |           |         |               |         |
| E.bdy.sec.36                   | N.0° 05'E.   | - 80.80  | - 80.80   |         | - 00.12       |         |
| E.bdy.sec.25                   | N.0° 05'E.   | - 81.40  | - 81.40   |         | - 00.12       |         |
| E.bdy.sec.24                   | N.0° 02'E.   | - 81.50  | - 81.50   |         | - 00.05       |         |
| E.bdy.sec.13                   | North        | - 81.28  | - 81.28   |         |               |         |
| E.bdy.sec.12                   | North        | - 80.96  | - 80.96   |         |               |         |
| E.bdy.sec.1                    | N.0° 07'E.   | - 82.02  | - 82.02   |         | - 00.16       |         |
| South Bdy.of                   |              |          |           |         |               |         |
| T.6 N. R.3 E.                  | East         | - 482.67 |           |         | - 482.67      |         |
| West Bdy.of                    |              |          |           |         |               |         |
| T.6 N. R.4 E.                  |              |          |           |         |               |         |
| W.bdy.sec.31                   | S.0° 10'E.   | - 16.22  |           | - 16.22 | - 00.05       |         |
| West Bdy.of                    |              |          |           |         |               |         |
| T.5 N. R.4 E.                  |              |          |           |         |               |         |
| W.bdy.sec.6                    | S.0° 10'E.   | - 80.12  |           | - 80.12 | - 00.23       |         |
| W.bdy.sec.7                    | S.0° 24'E.   | - 80.05  |           | - 80.05 | - 00.56       |         |
| W.bdy.sec.18                   | S.0° 32'E.   | - 80.02  |           | - 80.02 | - 00.75       |         |
| W.bdy.sec.19                   | S.0° 34'E.   | - 80.08  |           | - 80.08 | - 00.79       |         |
| W.bdy.sec.30                   | S.0° 15'E.   | - 80.04  |           | - 80.04 | - 00.35       |         |
| W.bdy.sec.31                   | S.0° 11'E.   | - 69.75  |           | - 69.75 | - 00.23       |         |
| Convergency                    |              |          |           |         |               |         |
| Totals                         |              |          | 487.96    | 487.87  | 486.71        | 488.00  |
| Error in lat.                  |              |          | 487.87    | 0.09    | Error in dep. | 1.29    |

For General Description see book "D", Subdivisions  
of T.5 N. R.3 E.

*Frank D. Kent*

U.S. DEPUTY SURVEYOR

# FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.

## LIST OF NAMES.

A list of the names of the individuals employed by HARVEY D. HEIST

....., United States Deputy Surveyor, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey of

THE EAST BOUNDARY OF TOWNSHIP NO. 5 NORTH, RANGE NO. 3 EAST of the  
salt lake base & meridian state

showing the respective capacities in which they acted:

CHRISTIAN SCHMALZ

, Chairman.

GEORGE NEEDHAM

, Chairman.

WILLIAM ROBERTS

, Moundman.

CORNELIUS HUNT

, Axman.

PETER H. PETERSON

, Flagman.

## FINAL OATH OF ASSISTANTS.

We hereby certify that we assisted HARVEY D. HEIST

....., United States Deputy Surveyor, in surveying all  
those parts or portions of the

THE EAST BOUNDARY OF TOWNSHIP NO. 5 NORTH, RANGE NO. 3 EAST.

of the SALT LAKE

BASE and ..... meridian, in the state of UTAH, which are represented

in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor

General for UTAH.

Christian Schmalz

, Chairman.

George A. Needham

, Chairman.

William Roberts

, Moundman.

....., Moundman.

Cornelius Hunt

, Axman.

....., Axman.

Peter H. Peterson

, Flagman.

Subscribed and sworn to before me this 5th.

day of June, 1902.

HARVEY D. HEIST

U.S. DEPUTY SURVEYOR



FINAL OATH OF UNITED STATES DEPUTY SURVEYOR

I, Harvey D. Heist, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of 12th day of November, 1901, I have well, faithfully, and truly, in my proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the East Boundary of T. 5 N. M. R. 3 E.

of the Salt Lake Base and meridian, in the state of Utah, which are represented in foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

Subscribed by said Harvey D. Heist, and sworn to before me }  
this 14th day of July, 1902 }  
Edward H. Anderson  
U.S. Surveyor



APPROVAL

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

Salt Lake City, Utah, August 27,  
The East Boundary of Twp.  
5 North Range, 3 East of the Salt Lake Baseline and  
Meridian, Utah.

executed by Harvey D. Heist, dated November 12, 1901, 1901, having under his contract No. 248, critically examined, and the necessary corrections and explanations made, the said field notes, a surveys they describe, are hereby approved.

Edward H. Anderson  
United States Surveyor G

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor G

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BOOK A-281

BOOK "B".

# FIELD NOTES

OF THE SURVEY OF THE

D-E-T-E-A-C-H-M-E-N-T

of the

First Standard Parallel North,

through

Range No. 3 West.

of the Salt Lake Base and Meridian,

in the state of Utah,

AS SURVEYED BY

Harvey D. Heist, United States Deputy Surveyor,

Under his Contract No. 248, dated November 12th, 1901.

Reconcurrent  
Survey commenced June 4th, 1902.

Reconcurrent  
Survey completed June 6th, 1902.

Att 6-08-00 L.S.H.

## NAMES AND DUTIES OF ASSISTANTS.

CORNELIUS HUNT

Chairman

WILLIAM ROBERTS

" "

GEORGE A. NEEDHAM

" "

CHRISTIAN SCHMALZ

" "

WILLIAM ROBERTS

Moundman

CORNELIUS HUNT

Axman

PETER H. PETERSON

Flagman.

BOOK A-281

INDEX DIAGRAM.

*Township*, *Range*

|    |    |    |    |    |    |
|----|----|----|----|----|----|
| 6  | 5  | 4  | 3  | 2  | 1  |
| 7  | 8  | 9  | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

*Meanders Page*

**PRELIMINARY OATHS OF ASSISTANTS.**

We, CORMELIUS HUNT, WILLIAM ROBERTS and GEORGE A. MACDONALD, do

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will lay the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same, so that we will report the true distances to all notable objects, and the true lengths of all lines that we may be measuring, to the best of our skill and ability, and in accordance with instructions given us, in the retracement of the first standard parallel north, through range No. 3, Salt Lake Base & Meridian, State of Utah.

*Cormelius Hunt William Roberts, Chainman*

*George A Macdonald, Chainman*

Subscribed and sworn to before me this 2nd.

day of June, 1902



Harvey D. Heist

U.S. Deputy Surveyor

We, WILLIAM ROBERTS and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of the Salt Lake Base & Meridian, State of Utah.

*William Roberts Moundman*

*William Roberts Moundman*

Subscribed and sworn to before me this 2nd.

day of June, 1902



Harvey D. Heist

U.S. Deputy Surveyor

We, CORMELIUS HUNT and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corners and other duties, according to instructions given us, to the best of our skill and ability, in the survey of the Salt Lake Base & Meridian, State of Utah.

*Cormelius Hunt Axman*

*Cormelius Hunt Axman*

Subscribed and sworn to before me this 2nd.

day of June, 1902



Harvey D. Heist

U.S. Deputy Surveyor

I, PETER H. PETERSON do solemnly swear that I will well and

perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of the Salt Lake Base & Meridian, State of Utah.

*Peter H. Peterson Flagman*

Subscribed and sworn to before me this 2nd.

day of June, 1902



Harvey D. Heist

U.S. Deputy Surveyor

## RETRACEMENT OF THE

## FIRST STANDARD PARALLEL NORTH THROUGH RANGE 3 EAST.

## CHAINS

Survey commenced June 5, 1902, and executed with the instrument described in book "A" of this survey.

I know the instrument to be in adjustment from observations taken June 2 and 3, 1902, at the Standard closing cor. for Ts.4 and 5 N. R.3 E., and recorded in book "A" of this survey.

Preliminary to commencing the subdivision of this township, I retrace the First Standard Parallel North, through Range 3 East, as follows:

At 7 a.m., l.m.t.: I set off  $41^{\circ} 07' N.$  on the lat.arc;  $22^{\circ} 30' N.$  on the decl.arc; and determine a true meridian with the solar, at the Standard closing cor. for Ts.4 and 5 N. R.3 E. heretofore described.

Thence I run

with two sets of chainmen

West on S. Boundary sec.36.

Ascend over stony land through dense artemisia and oak brush.

2.00 Top of ridge bears N. and S.

Descend abruptly.

13.40 Fall 4 lks. N. of the closing cor. to Tp.4 N. Rs.3 and 4 E., which is a red quartzite stone 6x6x6 ins. above ground, marked as described by the surveyor general.

16.70 Bottom of gulch 200 ft. below top of ridge, course S.

Ascend.

27.20 Top of spur projects S.

Descend.

38.00 Bottom of ravine 150 ft. deep, course S. Ascend to standard + sec.cor.

Difference between measurement, by two sets of chainmen, is 6 lks.; position of middle point.

By 1st.set, 40.63 chs.

By 2nd.set, 40.57 chs., the mean of which is

40.60 Fall 12 lks. N. of the Standard + sec.cor., which is

RETRACEMENT OF THE  
FIRST STANDARD PARALLEL NORTH THROUGH RANGE 3 EAST. continued

|        |                                                                                                                                                                                                                                                                                                                                                                       |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | a sandstone boulder 12 x 9 x 5 ins. above the ground, marked as described by the surveyor general.                                                                                                                                                                                                                                                                    |
| 49.00  | Top of ridge bears N. and S.<br>Thence follow along a ridge bearing E. and W.<br>Descend.                                                                                                                                                                                                                                                                             |
| 80.00  | Bend in ridge bears E. and S.W.<br>Begin steep descent.<br>To Standard cor. of secs. 35 and 36.<br>Difference between measurement, by two sets of chainmen is 6 lks., position of middle point,<br>By the first set, 81.51 chs.<br>By the 2nd. set, 81.45 chs., the mean of which is                                                                                  |
| 81.48  | Fall 24 lks. N. of the Standard cor. of secs. 35 and 36,<br>which is a quartzite stone 12 x 11 x 10 ins. above the ground, marked as described by the surveyor general.<br>The course of this line is therefore S. 89° 50' W. and the dist. is 81.48 chs.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>No timber, grazing poor.<br>Mountainous land 81.48 chs. |
|        | West on retracement line on the S. Bdy.<br>of sec. 35.<br>Descend abruptly through dense oak brush, sarvis berry and artemisia.                                                                                                                                                                                                                                       |
| 6.25   | Bottom of ravine 100 ft. deep, course S.W.<br>Ascend.                                                                                                                                                                                                                                                                                                                 |
| 12.75  | Top of spur projects S.W.<br>Descend.                                                                                                                                                                                                                                                                                                                                 |
| 13.50  | Fall 4 lks. N. of the closing cor. to secs. 1 and 2, T. 4 N. R. 3 E., which is a sandstone boulder 8 x 8 x 6 ins. above the ground, marked and witnessed as described by the surveyor general.                                                                                                                                                                        |
| 19.50  | Cottonwood Creek, 10 lks. wide, 10 ins. deep, in canon 250 ft. deep, course S. 10° W.                                                                                                                                                                                                                                                                                 |

## RETRACEMENT OF THE

## FIRST STANDARD PARALLEL NORTH THROUGH RANGE 3 EAST. continued

## CHAINS

There are a few scattering cottonwoods along the bottom of the canon.

Ascend abruptly.

22.50 Top of steep ascent, begin gradual ascent.

50.00 Top of spur projects S.

descend.

To Standard  $\frac{1}{4}$  sec.cor.

Difference between measurement, by two sets of chainmen is 8 lks. position of cor.

By Ist.set, 40.71 chs.

By 2nd.set, 40.63 chs., the mean of which is

40.67 Fall 12 lks.N. of the Standard  $\frac{1}{4}$  sec.cor., which is a cobble stone 10x10x8 ins. above the ground, marked and witnessed as described by the surveyor general.

54.00 Fork of Cottonwood Creek, 5 lks. wide, 6 ins. deep, in bottom of ravine 200 ft. deep, course S.E.

66.10 Top of spur projects S.

Descend.

73.25 Bottom of ravine 100 ft. deep, course S.E.

Ascend.

To Standard cor.of secs.34 and 35.

Difference between measurement, by two sets of chainmen is 10 lks., position of the cor.

By the Ist.set 81.71 chs.

By the 2nd.set 81.61 chs. the mean of which is

81.66 Fall 24 lks.N. of the Standard cor.of secs.34 and 35, which is a sandstone 10x10x4 ins. above the ground, marked as described by the surveyor general.

The course of this line is therefore S.89° 50'W.

and the dist.is 81.66 chs.

Land mountainous.

Soil gravelly 3rd.rate.

No timber.

Mountainous land 81.66 chs.

June 5: At this cor.I set off 22° 31'N.on the decl.

arc; and at 11 h.58 m., a.m., I.m.t.I observe the

RETRACEMENT OF THE  
FIRST STANDARD PARALLEL NORTH THROUGH RANGE 5 EAST, CONTINUED

|        |                                                                                                                                                                                                                                                                                            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | sun on the meridian, the resulting lat. is $41^{\circ} 07' N.$                                                                                                                                                                                                                             |
|        | West on retracement line on the S.Bdy.of sec.34.                                                                                                                                                                                                                                           |
|        | Ascend through dense artemisia, maple and oak brush.                                                                                                                                                                                                                                       |
| 8.00   | Top of ridge bears N.W. and S.E.<br>Descend.                                                                                                                                                                                                                                               |
| 9.69   | Fall 3 lks.N. of the closing cor.to secs.3 and 3.<br>T.4 N. R.3 E., which is a quartzite stone 10x8x8 ins.<br>in the ground, marked as described by the surveyor<br>general.                                                                                                               |
| 16.00  | Small gulch drains S.W.<br>Ascend.                                                                                                                                                                                                                                                         |
| 22.00  | Top of ridge bears N.E. and S.W.<br>Descend.                                                                                                                                                                                                                                               |
| 27.00  | Bottom of ravine 100 ft.deep, course S. $10^{\circ}$ W.                                                                                                                                                                                                                                    |
| 33.00  | Top of ridge bears S. $10^{\circ}$ W. and N. $10^{\circ}$ E.<br>Descend.<br>To Standard $\frac{1}{4}$ sec.cor.<br>Difference between measurement, by two sets of<br>chainmen is 6 lks., position of cor.<br>By the 1st.set, 40.68 chs.<br>By the 2nd.set, 40.74 chs., the mean of which is |
| 40.71  | Fall 14 lks.N. of the Standard $\frac{1}{4}$ sec.cor., which is a<br>sandstone boulder 8x8x8 ins.in the ground, marked as<br>described by the surveyor general.                                                                                                                            |
| 56.00  | Creek 5 lks.wide, 10 ins.deep, in bottom of ravine 250<br>ft.deep, course S.<br>Begin steep ascent.                                                                                                                                                                                        |
| 61.00  | Top of spur projects S.E.<br>Descend.                                                                                                                                                                                                                                                      |
| 63.00  | Small gulch drains S.E.<br>Ascend.                                                                                                                                                                                                                                                         |
| 67.00  | Top of ridge bears N. and S.<br>Descend.<br>To Standard cor.of secs.33 and 34.                                                                                                                                                                                                             |

RETRACEMENT OF THE  
FIRST STANDARD PARALLEL NORTH THROUGH RANGE 3 EAST. continued.

| CHAINS | Difference between measurement, by two sets of chainmen, is 8 lks., position of cor.                                                                                                                                                           |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | By the 1st.set, 81.35 chs.                                                                                                                                                                                                                     |
|        | By the 2nd.set, 81.27 chs. the mean of which is                                                                                                                                                                                                |
| 81.31  | Fall 28 lms.N. of the Standard cor. of secs.33 and 34, which is a sand-stone boulder 12x10x7 ins. above the ground, marked as described by the surveyor general. The course of this line is therefore S.89° 48' W. and the dist. is 81.31 chs. |
|        | Land mountainous.                                                                                                                                                                                                                              |
|        | Soil gravelly 3rd.rate.                                                                                                                                                                                                                        |
|        | No timber.                                                                                                                                                                                                                                     |
|        | Mountainous land, on 81.31 chs.                                                                                                                                                                                                                |
|        | June 5, 1902.                                                                                                                                                                                                                                  |
| <hr/>  |                                                                                                                                                                                                                                                |
|        | June 6: At 7 a.m., l.m.t., I set off 41° 07' N. on the lat.arc: 22° 37' N. on the decl.arc; and determine a true meridian at the Standard cor. of secs.33 and 34, on the 1st. Standard Parallel North.                                         |
|        | Thence I run                                                                                                                                                                                                                                   |
|        | West on retracement line on the S.Bdy.                                                                                                                                                                                                         |
|        | of sec.33.                                                                                                                                                                                                                                     |
|        | Descend through dense artemisia, oak and sarvis berry brush.                                                                                                                                                                                   |
| 6.50   | Small gulch drains S.10° E. ascend.                                                                                                                                                                                                            |
| 7.00   | Fall 2 lks.N. of the closing cor. to secs.3 and 4. T.4 N. R.3 E., which is a sandstone boulder 10x10x8 ins. above the ground, marked as described by the surveyor general.                                                                     |
| 7.50   | Descend.                                                                                                                                                                                                                                       |
| 8.00   | Bottom of ravine 75 ft. deep, course S.                                                                                                                                                                                                        |
|        | Ascend.                                                                                                                                                                                                                                        |
| 8.60   | Top of spur projects S.                                                                                                                                                                                                                        |
|        | Begin steep descent.                                                                                                                                                                                                                           |
| 38.50  | Dry Creek 10 lks.wide, 6 ins.deep, in canon 500 ft. deep, course S.E.                                                                                                                                                                          |

RETRACEMENT OF THE  
FIRST STANDARD PARALLEL NORTH THROUGH RANGE 3 EAST CONTINUED

|       |                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------|--------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | Chains                                                 | <p>There are a few scattering cottonwoods along the bottom of the canon.</p> <p>Begin steep ascent through scattering pines.</p> <p>To Standard <math>\frac{1}{4}</math> sec.cor.</p> <p>Difference between measurement, by two sets of chainmen is 12 lks., position of the cor.</p> <p>By the 1st.set, 40.91 chs.</p> <p>By the 2nd.set, 40.79 chs. the mean of which is</p>                                             |
| 40.85 | Fall 12 lks.N. of the Standard $\frac{1}{4}$ sec.cor., | <p>which is a sandstone 10x8x6 ins above the ground, marked as described by the surveyor general.</p> <p>The course of this line is therefore S.89° 50' W. and the dist. is 40.85 chs.</p> <p>I continue the line.</p>                                                                                                                                                                                                     |
| 52.00 | Top of spur projects N.E.                              | <p>Descend through heavy pine timber.</p>                                                                                                                                                                                                                                                                                                                                                                                  |
| 60.35 | Bottom of ravine 200 ft. deep, course N.E.             | <p>Leave heavy pines, ascend through dense laurel, oak, maple brush and scattering pines.</p>                                                                                                                                                                                                                                                                                                                              |
|       |                                                        | <p>To Standard cor.of secs.32 and 33, on top of a spur ridge projecting N.E.</p> <p>Difference between measurements ,by two sets of chainmen is 10 lks., position of the cor.</p> <p>By the 1st.set, 81.26 chs.</p> <p>By the 2nd.set, 81.16 chs., the mean of which is</p>                                                                                                                                                |
| 81.21 | Fall 46 lks.N. of the Standard cor.of secs.32 and 33,  | <p>which is a red sandstone 14x10x6 ins. above the ground marked and witnessed as described by the surveyor general.</p> <p>This cor. is 800 ft. above the bottom of Dry Creek Canon. ✓</p> <p>The course of this line is therefore S.89° 30' W. and the dist. is 40.36 chs.</p> <p>Land mountainous.</p> <p>Soil gravelly 3rd.rate.</p> <p>Scattering pine timber on 42.70 chs.</p> <p>Mountainous land on 81.21 chs.</p> |

## RETRACEMENT OF THE

## FIRST STANDARD PARALLEL NORTH THROUGH RANGE 3 EAST. continued.

## CHAINS

West on a retracement line on the S.Bdy.  
of sec.32.

Descend through dense oak, laurel, sarvis berry brush  
and scattering pine timber.

- 6.00 Bottom of ravine 150 ft. deep, course N.E.  
Begin steep ascent.  
6.50 Fall I 1k.N.of the closing cor.for secs.4 and 5.  
T.4 N. R.3 E., which is a quartzite stone 8x6x6 ins.  
above the ground, marked and witnessed as described  
by the surveyor general.

- 15.00 Top of spur ridge projects N.E.  
Descend through heavy pine timber.

To Standard  $\frac{1}{4}$  sec.cor.

Difference between measurement by two sets of  
chainmen is 10 lks., position of the cor.

By the 1st.set, 40.50 chs.

By the 2nd.set, 40.40 chs., the mean of which is

- 40.45 Fall II 1ks.N.of the Standard  $\frac{1}{4}$  sec.cor.for sec.32.  
which is a live pine 12 ins.diam., marked and  
witnessed as dsecribed by the surveyor general.

- 54.00 Bottom of ravine 200 ft. deep, course N.E.  
Leave pine, enter heavy aspen timber.  
Ascend.

- 76.00 Enter heavy pine timber bears N.W.and S.E.

To Standard cor.of secs.31 and 32.

Difference between measurement , by two sets of  
chainmen is 12 lks., position of the cor.

By the 1st.set, 81.05 chs.

By the 2nd.set, 79.93 chs., the mean of which is

- 80.99 Fall 27 lks.N.of the Standard cor.of secs.31 and 32,  
which is a limestone 10x9x6 ins.above the ground  
marked and witnessed as described by the surveyor  
general.

This cor.is 600 ft.above the Standard cor.of secs.  
32 and 33.

The course of this line is therefore S.89° 51'W.  
and the dist.is 80.99 chs.

RETRACEMENT OF THE  
FIRST STANDARD PARALLEL NORTH THROUGH RANGE 3 EAST.

|        |                                                                                                                                                                                                                                                                                                               |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | <p>Land mountainous. 1st rate.<br/>Soil gravelly. 3rd. rate.<br/>Timber aspen or pine on 80.99 chs.<br/>Mountainous land on 80.99 chs.<br/>June 6: At this cor. I set off 22° 38' N. on the decl. arc; and at 11h.58m., a.m., l.m.t., I observe the sun on the meridian, the resulting lat. is 41° 07' N.</p> |
|        | <p>West on a retracement line on the S. Bdy.<br/>of sec. 31.</p>                                                                                                                                                                                                                                              |
|        | <p>Ascend through heavy pine timber.</p>                                                                                                                                                                                                                                                                      |
| 4.00   | <p>Leave pine timber, bears N.W. and S.E.<br/>Enter young aspens and dense under-growth.</p>                                                                                                                                                                                                                  |
| 5.87   | <p>Fall 1 lks.N. of the closing cor. to secs. 5 and 6,<br/>T.4 N. R.3 E., which is a limestone 12x10x3 ins. above<br/>the ground, marked and witnessed as described by the<br/>surveyor general.</p>                                                                                                          |
| 10.00  | <p>Top of main ridge, bears N.10°W. and S.5° E.<br/>200 ft. above the Standard cor. of secs. 31 and 32.<br/>Descend.</p>                                                                                                                                                                                      |
| 21.00  | <p>Bottom of Roswell's Canon or Devil Hollow, 100 ft deep<br/>course N.<br/>Head of canon about 15 chs.S.<br/>Ascend.</p>                                                                                                                                                                                     |
| 25.50  | <p>Top of spur projects N.<br/>Enter heavy aspen and pine timber.<br/>Descend.<br/>To Standard 1/4 sec.cor.</p>                                                                                                                                                                                               |
|        | <p>Difference between measurement, by two sets of<br/>chainmen is 8 lks., position of cor.</p>                                                                                                                                                                                                                |
|        | <p>By the 1st.set, 40.74 chs.<br/>By the 2nd.set, 40.66 chs., the mean of which is.</p>                                                                                                                                                                                                                       |
| 40.70  | <p>Fall 8 lks.N. of the Standard 1/4 sec.cor. of sec. 31<br/>which is a dead aspen tree 4 ins.diam.lying on the<br/>ground, marked and witnessed as described by the</p>                                                                                                                                      |

RETRACEMENT OF THE  
FIRST STANDARD PARALLEL NORTH THROUGH RANGE 3 EAST. continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | surveyor general.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | I reestablish the $\frac{1}{4}$ sec.cor.as follows:-                                                                                                                                                                                                                                                                                                                                                                                               |
|        | Set a limestone 12x12x6 ins., 8 ins.in the ground,<br>for reestablished Standard $\frac{1}{4}$ sec.cor.for sec.3I,<br>marked with S.C. $\frac{1}{4}$ S. on N.face,from which                                                                                                                                                                                                                                                                       |
|        | An aspen 5 ins.diam.bears N.56°E.28 lks.dist.marked<br>S.C. $\frac{1}{4}$ S.3I B.T.                                                                                                                                                                                                                                                                                                                                                                |
|        | An aspen 3 ins.diam.bears N.25°E. 15 lks.dist.marked<br>S.C. $\frac{1}{4}$ S.3I B.T.                                                                                                                                                                                                                                                                                                                                                               |
|        | The new cor.destroys all traces of the old cor.                                                                                                                                                                                                                                                                                                                                                                                                    |
| 50.60  | Roswell's Canon or Devil's Hollow, course S.75° W.<br>Descend along the N.side of the canon.                                                                                                                                                                                                                                                                                                                                                       |
| 55.00  | Leave timber bears S.W.and N.E.<br>Enter dense artemisia,oak and scattering mahoganies.                                                                                                                                                                                                                                                                                                                                                            |
| 76.00  | Bottom of gulch course S.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                               |
| 80.00  | Top of spur ridge projects S.E.<br>Enter dense mahoganies.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                             |
|        | To Standard Cor.to T.5 N. Rs.2 and 3 E.<br>Difference between measurement ,by two sets of<br>chainmen is 8 lks.,position of the cor.<br>By the first set,8I.39 chs.<br>By the second set,8I.3I chs.,the mean of which is                                                                                                                                                                                                                           |
| 8I.35  | Fall 16 lks.N. of the Standard Cor.to T.5 N. Rs.2 and<br>3 E.,which is a limestone 12x10x9 ins.above the ground<br>marked and witnessed as described by the surveyor<br>general.<br>This Tp.cor.is 800 ft.below the top of the main ridge.<br>The course of this line is therefore S.89° 53'W.<br>and the dist.is 8I.35 chs.<br>Land mountainous.<br>Soil gravelly 3rd.rate.<br>Timber aspen and pine 55.00 chs.<br>Mountainous land on 8I.35 chs. |
|        | June 6, 1902.                                                                                                                                                                                                                                                                                                                                                                                                                                      |

RETRACIMENT OF THE  
FIRST STANDARD PARALLEL NORTH THROUH RANGE 3 EAST.

For general description, see subdivisions of 2d Bdy.  
R.3 E., book "D", of this survey.  
For table of Latitude and departures, see book "B",  
the survey of the E. Bdy. of T.5 N. R.3 E.

*Harvey D. Kent*

U.S. DEPUTY SURVEYOR

**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**

**LIST OF NAMES.**

A list of the names of the individuals employed by HARVEY D. HEIST

United States Deputy Surveyor, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of ~~the survey of~~ THE

RETRACEMENT OF THE FIRST STANDARD PARALLEL NORTH, THROUGH RANGE 3 EAST.

~~the Salt Lake Meridian Survey~~

CORNELIUS HUNT,

WILLIAM ROBERTS

, Chainman.

GEORGE A. NEEDHAM

CHRISTIAN SCHMALZ

, Chainman.

WILLIAM ROBERTS

, Moundman.

CORNELIUS HUNT

, Axman.

PETER H. PETERSON

, Flagman.

**FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted HARVEY D. HEIST

United States Deputy Surveyor, in surveying all

those parts or portions of the RETRACEMENT OF THE

FIRST STANDARD PARALLEL NORTH, THROUGH RANGE NO. 3 EAST.

of the SALT LAKE

BASE and meridian, in the state of UTAH, which are represented  
~~retraced~~ in the foregoing field notes as having been ~~surveyed~~ by him and under his direction; and that said survey has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the corner monuments established, according to the instructions furnished by the United States Surveyor General for UTAH.

Cornelius Hunt

William Roberts

, Chainman.

George A. Needham

Christian Schmalz

, Chainman.

William Roberts

, Moundman.

Cornelius Hunt

, Axman.

Peter H. Peterson

, Flagman.

Subscribed and sworn to before me this 7th.

day of June, 1902.

Harvey D. Heist

U. S. DEPUTY SURVEYOR



**FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.**

I, Harvey D. Heist, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 12th day of November 1801, I have well, faithfully, and truly, in my own proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the retracement of the First Standard Parallel North through Range No. 3 East.

Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

*Harvey D. Heist*

United States Deputy Surveyor

Subscribed by said *Harvey Heist*, and sworn to before me  
this 11th day of July 1807.



APPROVAL

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Dated, August 27, 1802.*

The foregoing field notes of the survey of retracement of the First Standard Parallel North through Range 3 East of the Salt Lake Base Meridian, Utah

executed by *Harvey D. Heist*,  
under his contract No. 248, dated November 12, 1801, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

*Edward H. Anderson*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

United States Surveyor General

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# FIELD NOTES

OF THE SURVEY OF THE

or the

East Boundary.

or

Township No. 5 North, Range No. 2 East.

Of the Salt Lake Base and Meridian,

in the State of Utah,

AS SURVEYED BY

Harvey D. Heist, United States Deputy Surveyor,

Under his Contract No. 248, dated November 13th, 1891

Rehearsal  
Survey commenced June 7, 1892

Rehearsal  
Survey completed June 8, 1892

6-151

Heist June 6 1892

## **NAMES AND DUTIES OF ASSISTANTS.**

— 3 —

CHRISTIAN SCHMALZ

### **Chairman**

GEORGE A. NEEDHAM

**Moundman**

WILSON'S BIRDING GUIDE

## ЛУЧШИЕ

PETER H. PETERSON

...Flagrant

3

and cannot affect each other.

133

## THE DARK AND THE LIGHT

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BOOK A-281

INDEX DIAGRAM.

*Township* \_\_\_\_\_, *Range* \_\_\_\_\_

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*Meanders Page* \_\_\_\_\_

PRELIMINARY OATHS OF ASSISTANTS.

WE, CHRISTIAN SCHMALZ

and GEORGE A. NEEDHAM

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the

RETRACEMENT OF THE EAST BDY. OF T. 5 N. R. 2 E. *of the Dahl Lake Base*

*Base & Greedien, Etat*

*Christian Schmalz, Chainman*  
*George A. Needham, Chainman*

Subscribed and sworn to before me this 2nd.

day of June, 1802



*Harvey D. Heist*

U.S. DEPUTY SURVEYOR

WE, WILLIAM ROBERTS

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given *me*, to the best of *my* skill and ability, in the survey

RETRACEMENT OF THE EAST BDY. OF T. 5 N. R. 2 E. *of the Dahl Lake*

*Base & Greedien, Etat*

*William Roberts*

Moundman

Moundman

Subscribed and sworn to before me this 2nd.

day of June, 1802



*Harvey D. Heist*

U.S. DEPUTY SURVEYOR

WE, CORNELIUS HUNT

and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given *me*, to the best of *our* skill and ability, in the survey

RETRACEMENT OF THE EAST BDY. OF T. 5 N. R. 2 E. *of the Dahl Lake*

*Base & Greedien, Etat*

*Cornelius Hunt*

Axma

Axma

Subscribed and sworn to before me this 2nd.

day of June, 1802



*Harvey D. Heist*

U.S. DEPUTY SURVEYOR

I, PETER H. PETERSON

, do solemnly swear that I will well and tru

perform the duties of flagman according to instructions given *me*, to the best of my skill and ability, in t

survey of RETRACEMENT OF THE EAST BDY. OF T. 5 N. R. 2 E. *of the Dahl Lake*

*Base & Greedien, Etat*

*Peter H. Peterson*

Flagma

Subscribed and sworn to before me this 2nd.

day of June, 1802



*Harvey D. Heist*

U.S. DEPUTY SURVEYOR

**RETRACEMENT OF THE EAST BOUNDARY OF T.S. N. R.2 E.**

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CHAINS</b> | <p>Survey commenced June 7, 1902 and executed with the instrument described in book "A" of this survey.</p> <p>I know the instrument to be in adjustment from observations taken June 2 and 3, 1902, at the Standard closing cor. for Ts. 4 and 5 N. R.3 E. and recorded in book "A" of this survey.</p> <p>I begin at the Standard cor. to Ts. 5 N. Rs. 2 and 3 E. heretofore described.</p> <p>At 7 a.m., l.m.t. I set off <math>41^{\circ} 07' N.</math> on the lat. arc; <math>22^{\circ} 43' N.</math> on the decl. arc; and determine a true meridian with the solar.</p> <p>Thence I run</p> <p style="padding-left: 40px;">North on retracement line bet. secs.</p> <p style="padding-left: 40px;">31 and 36.</p> <p>Ascend through dense mahoganies.</p> |
| 3.00          | <p>Top of spur ridge projects S.E.</p> <p>Leave dense mahoganies, enter dense artemisia, oak, laurel and scattering mahoganies.</p> <p>Descend.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4.00          | <p>Begin abrupt ascent, over rocky land.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 40.55         | <p>Fall 6 lks. W. of <math>\frac{1}{4}</math> sec. cor. which is a red sandstone <math>10 \times 8 \times 7</math> ins. above the ground, marked and witnessed as described by the Surveyor General</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 47.00         | <p>Enter scattering pines and mahoganies.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 50.00         | <p>Top of ridge 1000 ft. above the Tp. cor., bears N.E. and S.W. Leave pines.</p> <p>Descend.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 57.00         | <p>Head of the Left Hand Fork of Roswell's Canon or Devil's Hollow, course S.W.</p> <p>Enter scattering aspens.</p> <p>Ascend.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 76.00         | <p>Top of ridge, bears E. and W.</p> <p>This ridge joins Durst Peak about a mile N.W. of this point.</p> <p>The altitude here is about 8500 ft.</p> <p>Leave aspens, descend through fire killed pine.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 80.80         | <p>Fall 12 lks. W. of cor. to secs. 25-30-31 and 36, which is</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

RETRACEMENT OF THE EAST BDY. OF T.5.N. R.2 E., continued.

CHAINS a quartzite stone 9x9x7 ins. above the ground, marked and witnessed as described by the surveyor general. The course of this line is therefore N.0° 05'E. and the dist. is 80.80 chs.  
 Land mountainous.  
 Soil rocky 4th.rate.  
 Timber aspen or pines on 26.80 chs.  
 Mountainous land on 80.80 chs.  
 June 7: AT this cor. I set off 22° 44'N.on the decl. arc; and at 11h.58m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 41° 08'N.

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- North on a retracement line bet. secs. 25 and 30.
- Descend abruptly through dead and fallen pine timber.
- 16.00 Arbuckle Canon, heads 15 chs. S.W., 400 ft. deep, course N.E.  
 Leave dead pine.  
 Enter aspens and scattering live pine.  
 Begin steep ascent.
- 33.00 Top of ridge bears N.E. and S.W.  
 Leave aspens.  
 Descend.  
 Enter heavy pine timber.
- 40.56 Fall 6 lks. W. of the  $\frac{1}{4}$  sec. cor., which is a pine tree 18 ins. diam. marked and witnessed as described by the surveyor general.
- 55.00 Bottom of ravine 500 ft. deep, course N.E.  
 Leave heavy timber.  
 Enter scattering pines.  
 Ascend.
- 69.00 Top of ridge bears N.E. and S.W.  
 Leave timber.  
 Enter dense oak, laurel and rose bushes.  
 Descend.
- 76.00 Bottom of gulch course N.E.

RETRACEMENT OF THE EAST BOUNDARY OF T. 1 S. R. 2 E., CONTINUED.

chains

Enter scattering pines.

Ascend.

- 81.40 Fall 12 lms. W. of the cor. to sec. 19-24-25-and 30,  
which is a limestone 9x7x5 ins. in the ground, marked  
and witnessed as described by the surveyor general.  
The course of this line is therefore N. 24° 15' E. and  
the dist. is 81.40 chn.

Land Mountainous.

Soil stony. 4th. rate.

Timber, dead pines on 10.00 chn.

live pines and aspens on 58.40 chn.

Mountainous land on 81.40 chn.

---

North on a retracement line bet. sec.

19 and 24.

Ascend through dense laurel, oak and scattering aspens  
and pine timber.

- 5.00 Top of spur projects E.

Descend.

- 13.00 Head of ravine course E.

Leave timber.

Begin steep ascent.

- 20.00 Enter scattering mahogany.

- 22.00 Top of ridge bears N.E. and S.W., 300 ft. above the cor.

Descend along the top of a ridge bearing N. and S.

- 40.79 Fall 2 lms. W. of the 1/4 sec. cor., which is a  
limestone 13x8x4 ins. above the ground, marked as  
described by the surveyor general.

The bearing tree has been destroyed.

- 47.80 Bend in ridge bears S. and N.E.

At this point a shaft 60 ft. deep, 10x10 ft. sq., bears E.  
10 lms. dist.

Begin steep descent through dense artemisia, laurel, oak,  
deerbrush and scattering dead pine timber.

- 75.00 Bottom of gulch 500 ft. below 1/4 sec. cor.

course N.E.

RETRACEMENT OF THE EAST BOUNDARY OF T.5 N. R.8 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 81.50  | Fall 5 lks.W. of the cor. to secs. I3-I8-I9 and 24, which is a limestone 10x8x4 ins. above the ground, marked and witnessed as described by the surveyor general.<br>The course of this line is therefore N.0° 02'E. and the dist. is 81.50 chs.<br>Land Mountainous.<br>Soil rocky 4th.rate.<br>Timber dead pines on 43.70 chs.<br>scattering pines and aspens on 13.00 chs.<br>Mountainous land on 81.50 chs.                            |
|        | June 7, 1902.                                                                                                                                                                                                                                                                                                                                                                                                                              |
|        | June 8: At 7 a.m., l.m.t., I set off 41° 10'N. on the lat.arc; 22° 49'N. on the decl.arc.; and determine a true meridian with the solar at the cer. of secs. I3-I8-I9 and 24.<br>Thence I run<br>North on a retracement line bet. secs.<br>I3 and I8.<br>Ascend through dense artemisia, laurel and oak brush.<br>3.00 Top of spur projects E.<br>Descend.<br>The mouth of a tunnel 80 ft. long, course west, bears S.10° W., 90 lks.dist. |
| 22.75  | Bottom of Pine Canon 300 ft. deep, course N.W.<br>Begin steep ascent.                                                                                                                                                                                                                                                                                                                                                                      |
| 35.25  | Top of ridge bears N.W. and S.E.<br>Enter scattering pine timber.<br>Begin steep descent.                                                                                                                                                                                                                                                                                                                                                  |
| 40.69  | Intersect the $\frac{1}{4}$ sec.cer., which is a limestone 10x10 x7 ins. above the ground, marked and witnessed as described by the surveyor general.<br>A small prospect bears S.52° E. 92 lks.dist.                                                                                                                                                                                                                                      |
| 45.50  | Foot of steep descent, 300 ft. below top of ridge.<br>Enter Cottonwood Canon.                                                                                                                                                                                                                                                                                                                                                              |

RETRACEMENT OF THE EAST BOUNDARY OF T.5 N. R.2 E., continued.

| CHAINS |                                                                                                                                                                |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Enter heavy cottonwood timber.                                                                                                                                 |
| 52.40  | Cottonwood Creek, 20 lks. wide, 12 ins. deep, course S.85°W.                                                                                                   |
| 53.00  | Leave cottonwood timber, bears E. and W.                                                                                                                       |
|        | Enter meadow bearing E. and W., belonging to E.P.Hardy.                                                                                                        |
| 57.00  | Stake and rider fence bears E. and W.                                                                                                                          |
|        | Leave meadow.                                                                                                                                                  |
|        | E.P.Hardy's house bears E. 15.00 chs. dist.                                                                                                                    |
| 57.10  | Wagon road bears E. and W.                                                                                                                                     |
|        | Ascend.                                                                                                                                                        |
|        | Leave canon.                                                                                                                                                   |
|        | Enter dense artemisia and oak brush.                                                                                                                           |
| 61.00  | Top of spur projects W..                                                                                                                                       |
|        | Descend.                                                                                                                                                       |
| 71.30  | Small gulch course S.W.                                                                                                                                        |
|        | Ascend.                                                                                                                                                        |
| 77.80  | Top of spur projects E.                                                                                                                                        |
|        | Descend.                                                                                                                                                       |
|        | Enter dense maple and oak brush.                                                                                                                               |
| 81.28  | Intersect the cor to secs. 7-12-13 and 18, which is a limestone 10x10x5 ins. above the ground, marked and witnessed as described by the surveyor general.      |
|        | The course of this line is therefore N.                                                                                                                        |
|        | Land mountainous.                                                                                                                                              |
|        | Soil, in canon 2nd. rate on 4 chs.                                                                                                                             |
|        | balance rocky 4th. rate.                                                                                                                                       |
|        | Timber scattering pines on 10.25 chs.                                                                                                                          |
|        | heavy cottonwoods in canon on 7.50 chs.                                                                                                                        |
|        | Mountainous land on 81.28 chs.                                                                                                                                 |
|        | June 8: At this cor. I set off 22° 49' N. on the decl. arc.; and at 11h. 59m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 41° 10' N. |
|        | North on a retracement line bet. secs.                                                                                                                         |
|        | 7 and 12.                                                                                                                                                      |

RETRACEMENT OF THE EAST BOUNDARY OF T.5 N. R.2 E., CO. 1

| CHAINS |                                                                                                                                                                      |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Descend through dense maple and oak brush.                                                                                                                           |
| 8.55   | Road in bottom of gulch course S.E.                                                                                                                                  |
|        | Begin steep ascent.                                                                                                                                                  |
| 40.58  | Intersect the $\frac{1}{2}$ sec.cor., which is a quartzite stone 12x10x6 ins. above the ground, marked and witnessed as described by the surveyor general.           |
| 55.00  | Top of ridge, 1000 ft. above Cottonweed Canon, bears E. and W.                                                                                                       |
|        | Descend.                                                                                                                                                             |
|        | Leave maple brush, enter dense artemisia and oak.                                                                                                                    |
| 67.60  | Small gulch course N.W.                                                                                                                                              |
|        | Ascend.                                                                                                                                                              |
| 74.00  | Top of spur projects N.W.                                                                                                                                            |
|        | Descend.                                                                                                                                                             |
| 80.05  | Bottom of ravine 450 ft. below ridge, course W.                                                                                                                      |
|        | Ascend.                                                                                                                                                              |
| 80.96  | Intersect the cor.to secs. I-6-7 and I2, which is a sand conglomerate stone 12x8x7 ins. above the ground, marked and witnessed as described by the surveyor general. |
|        | The course of this line is therefore N.                                                                                                                              |
|        | Land mountainous.                                                                                                                                                    |
|        | Soil stony 3rd.rate.                                                                                                                                                 |
|        | No timber.                                                                                                                                                           |
|        | Mountainous land 80.96 chs..                                                                                                                                         |

North on a retracement line bet, secs.

I and 6.

Ascend through dense artemisia, oak and scattering mahogany.

|       |                                                                                                                      |
|-------|----------------------------------------------------------------------------------------------------------------------|
| 18.00 | Top of ridge bears E. and W.                                                                                         |
|       | Descend.                                                                                                             |
| 40.18 | Bottom of ravine 400 ft. deep, course W.                                                                             |
|       | Ascend.                                                                                                              |
| 41.08 | Fall 8 lks.w. of the $\frac{1}{2}$ sec.cor., which is a sandstone boulder, 15x10x8 ins. above the ground, marked and |

RETRACEMENT OF THE EAST BOUNDARY OF T.5 N. R.2 E., concluded.

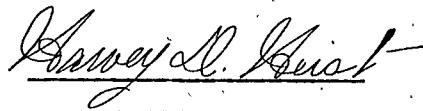
|        |                                                                                                                                                                                                                                                                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | witnessed as described by the surveyor general.                                                                                                                                                                                                                                                                                                    |
| 60.00  | Top of ridge bears E. and W.<br>Descend.                                                                                                                                                                                                                                                                                                           |
| 82.02  | Fall 16 ins. W. of the closing cor. to T.5 N. Rs.2 and<br>3 E., which is a sandstone 10x10x7 ins. above the<br>ground, marked as described by the surveyor general.<br>The course of this line is therefore N.0° 07'E.<br>and the dist. is 82.02 chs.<br>Land mountainous.<br>Soil stony 3rd rate.<br>No timber.<br>Mountainous land on 82.02 chs. |

June 8, 1902.

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For general description, see subdivisions of T.5 N.  
R.3 E., book "D" of this survey.

For table of Latitude and Departures, see book "A",  
the survey of the E.Bdy. of T.5 N. R.3 E.

  
U.S. DEPUTY SURVEYOR.

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**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**

**LIST OF NAMES.**

A list of the names of the individuals employed by HARVEY D. HEIST,

, United States Deputy Surveyor, to assist in running, measuring, and

marking the lines and corners described in the foregoing field notes of the survey of

RETRACEMENT OF THE EAST BDY. OF T. 5 N., R. 2 E. of the Salt Lake

base & meridian line showing the respective capacities in which they acted:

CHRISTIAN SCHMALZ, Chainman.

GEORGE A. NEEDHAM, Chainman.

WILLIAM ROBERTS, Moundman.

, Moundman.

CORNELIUS HUNT, Axman.

, Axman.

PETER H. PETERSON, Flagman.

**FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted HARVEY D. HEIST,

, United States Deputy Surveyor, in surveying all

those parts or portions of the

RETRACEMENT OF THE EAST BDY. OF T. 5 N., R. 2 E.

of the SALT LAKE

BASE and meridian, in the state of UTAH, which are represented  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
retraced has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor  
General for UTAH.

Christian Schmalz, Chainman.  
George A. Needham, Chainman.  
William Roberts, Moundman.

, Moundman.

Cornelius Hunt, Axman.

, Axman.

Peter H. Peterson, Flagman.

Subscribed and sworn to before me this 9th.

day of June, 1802 } {

Harvey D. Heist

U. S. DEPUTY SURVEYOR.



**FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.**

I, **HARVEY D. HEIST**

, United States Deputy Surveyor,

solemnly swear that, in pursuance of a contract received from **EDWARD H. ANDERSON**,  
United States Surveyor General for **UTAH**, bearing date of the  
**12th.** day of **November**, **1901**, I have well, faithfully, and truly, in my own  
proper person, and in strict conformity with the instructions furnished by the United States Surveyor  
General for **UTAH**, the Manual of Surveying Instructions, and the laws of the  
United States, surveyed all those parts or portions of

**RETRACIMENTS OF THE EAST BDY. OF T.5 N. R.2 E.**

of the **SALT LAKE**  
**BASE** and **meridian**, in the **in the state of UTAH**, which are represented in the  
foregoing field notes as having been **surveyed** by me, and under my direction; and I do further solemnly  
swear that all the corners of said **survey** have been established and perpetuated in strict accordance with  
the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor  
General for **UTAH**, and in the specific manner described in the field notes, and that  
the foregoing are the original field notes of such **survey**; and should any fraud be detected, I will suffer  
the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

*Harvey D. Heist*  
United States Deputy Surveyor

Subscribed by said *Harvey D. Heist*, and sworn to before me  
this **14<sup>th</sup>** day of *July*, **1901**.



*Edward H. Anderson*  
U.S. Surveyor General

**APPROVAL.**

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Salt Lake City, Utah, August 27, 1901*

*Rebatement of the East Boundary of Township*

*The foregoing field notes of the survey of the East Boundary of Township*

*5<sup>th</sup> Range, East of the Salt Lake Base of the Great*

*Utah*

executed by *Harvey D. Heist*,  
under his contract No. **218**, dated **December 12, 1901**, **189**, having been  
critically examined, and the necessary corrections and explanations made, the said field notes, and the  
surveys they describe, are hereby approved.

*Edward H. Anderson*  
United States Surveyor General

I certify that the foregoing transcript of the field notes of the above-described surveys in  
has been correctly copied from the original notes on file in this office.

United States Surveyor General

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BOOK A-281

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BOOK "D"

# FIELD NOTES

OF THE SURVEY OF THE

S-U-B-D-I-V-I-S-I-O-N L-I-N-E-S

of

Township No. 5 North, Range No. 3 East.

Of the Salt Lake Base and Meridian,

in the state of Utah,

AS SURVEYED BY

Harvey D. Heist, United States Deputy Surveyor,

Under his Contract No. 248, dated November 12th, 1901.

Survey commenced June 9th, 1902.

Survey completed June 26, 1902.

6-161

A 60-44 59 ✓  
L 23.00 60.67.59  
Adam 49.80

**NAMES AND DUTIES OF ASSISTANTS.**

Christian Schmalz

Chairman

George A. Needham

William Roberts

Moundman

Cornelius Hunt

Axman

Peter H. Peterson

Flagman

**BOOK A-281**

**INDEX DIAGRAM.**

*Township* , *Range*

|    |    |    |    |    |    |
|----|----|----|----|----|----|
|    | 5  | 4  | 3  | 2  | 1  |
| 7  | 8  | 9  | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

*Meanders Page*

**PRELIMINARY OATHS OF ASSISTANTS**

We, Christian Schmalz

and George A. Needham

do solemnly swear that we will well and faithfully execute the duties of chainmen; that we will level the chain over even and uneven ground, and plumb the tally pins, either by sticking or dropping the same; that we will report the true distances to all notable objects, and the true lengths of all lines that we assist in measuring, to the best of our skill and ability, and in accordance with instructions given us, in the survey of

The Subdivisions of T. 5 N. R. 3 E. of the Lake of the Woods and  
Mendian Relat

Christian Schmalz, Chairman

George A. Needham, Chainman

Subscribed and sworn to before me this 2nd..

day of June, 1902



Harvey D. Leist  
U.S. Deputy Surveyor

We, I, William Roberts

and

do solemnly swear that we will well and truly perform the duties of moundmen in the establishment of corners, according to the instructions given us, to the best of our skill and ability, in the survey of

The subdivisions of T. 5 N. R. 3 E. of the Lake of the Woods and  
Mendian Relat

William Roberts

Moundman

, Moundman

Subscribed and sworn to before me this 2nd..

day of June, 1902



Harvey D. Leist  
U.S. Deputy Surveyor

We, I, Cornelius Hunt

and

do solemnly swear that we will well and truly perform the duties of axmen in the establishment of corner and other duties, according to instructions given us, to the best of our skill and ability, in the survey of

The subdivisions of T. 5 N. R. 3 E. of the Lake of the Woods and  
Basco & Mendian Relat

Cornelius Hunt

Axma

, Axma

Subscribed and sworn to before me this 2nd..

day of June, 1902



Harvey D. Leist  
U.S. Deputy Surveyor

I, Peter H. Peterson

, do solemnly swear that I will well and truly perform the duties of flagman according to instructions given me, to the best of my skill and ability, in the survey of

The subdivisions of T. 5 N. R. 3 E. of the Lake of the Woods and  
Basco & Mendian Relat

Peter H. Peterson, Flagma

Subscribed and sworn to before me this 2nd..

day of June, 1902



Harvey D. Leist  
U.S. Deputy Surveyor

## SUBDIVISIONS OF T.5.N.. R.3.E.

## CHAINS

SURVEY commenced June 9, 1902, and executed with the instrument described in book "A" of this survey.

I know the instrument to be in adjustment from observations taken June 2 and 3, 1902, at the Standard closing cor. for Ts.4 and 5 N. R.3 E. and recorded in book "A" of this survey.

The S.Bdy. of the Tp. being defective in alinement and measurement, I establish a Sectional Correction Line as follows:

I begin at the cor. of secs. 25 and 36 on the E.Bdy. of the Tp., heretofore described.

At 7a.m., l.m.t., I set off  $41^{\circ} 08'N.$  on the lat.arc.;  $22^{\circ} 55'N.$  on the decl.arc; and determine a true meridian with the solar.

Thence I run

West on a Sectional Correction Line, bet.  
secs. 25 and 36.

Descend through dense oak, maple, sarvis berry and artemisia.

21.50 Bottom of ravine 150 ft. deep, course S.E.

Enter heavy aspen timber, bears N.W. and S.E.

Ascend.

34.00 Leave timber, bears N.W. and S.E.

35.00 Top of spur projects S.E.

Descend.

40.00 In head of ravine course S.E.

Set a trachyte stone 14x8x8 ins. 9 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S. on N.face, and raised a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, N. of cor.

Pits impracticable.

Ascend.

44.50 Top of ridge 400 ft. above the cor. to secs. 25 and 36. bears N. and S.

Begin steep descent.

80.00 Set a trachyte stone 15x12x12 ins. 10ins. in the ground for cor. to secs. 25-26-35 and 36, marked with I notch

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                                                                                               |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | on the S. and E. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.<br>Pits impracticable.<br>This cor. is 300 ft. below the top of the ridge.<br>Land mountainous<br>soil gravelly 3rd. rate.<br>Timber aspen on 12.50 chs.<br>Mountainous land on 80.00 chs. |
|        | West on a Sectional Correctional Line,<br>bet. secs. 26 and 35.                                                                                                                                                                                                                               |
|        | Descend through dense artemisia, oak and sarvis berry brush.                                                                                                                                                                                                                                  |
| 5.25   | Cottonwood Creek 10 lks. wide, 12 ins. deep, in canon 500 ft. deep, course S. $30^{\circ}$ W.<br>A few cottonwoods along the bottom of the canon.<br>Begin steep ascent.                                                                                                                      |
| 29.30  | Top of ridge bears N. and S.<br>Descend.                                                                                                                                                                                                                                                      |
| 33.00  | Head of gulch course S.<br>Ascend.                                                                                                                                                                                                                                                            |
| 37.25  | Top of ridge bears N. $10^{\circ}$ W and S. $10^{\circ}$ E.<br>Descend.                                                                                                                                                                                                                       |
| 40.00  | Set a trachyte stone 12x10x6 ins., 8 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.<br>Pits impracticable.                                                                    |
| 44.50  | Bottom of ravine course S., 100 ft. deep.<br>Ascend.                                                                                                                                                                                                                                          |
| 58.00  | Top of ridge bears N. and S.<br>Begin steep descent.                                                                                                                                                                                                                                          |
| 80.00  | Set a trachyte stone 16x12x10 ins., 10 ins. in the ground, for cor. to secs. 26-27-34 and 35, marked with 1 notch on the S. and 2 notches on the E. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.<br>Pits impracticable.                                  |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | <p>Land mountainous.</p> <p>Soil gravelly 3rd.rate.</p> <p>No timber.</p> <p>Mountainous land and dense undergrowth on 80.00 chs.</p> <p>June 9: At this cor. I set off 22° 55' N.on the decl. arc; and at 11h.59m.a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 41° 08' N.</p> <hr/> <p>West on a Sectional Correction Line, bet. secs. 27 and 34.</p> <p>Descend through dense artemisia, oak and sarvis berry brush.</p> |
| 1.50   | Fork of Cottonwood Creek 5 lks.wide, 6 ins.deep, in canon 500 ft.deep, course S.E.                                                                                                                                                                                                                                                                                                                                                                 |
|        | Ascend abruptly.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 31.45  | Top of ridge bears N.and S.                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 40.00  | Set a trachyte stone 15x9x9 ins., 10 ins.in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S.on N.face, and raise a mound of stone 2ft.base, $1\frac{1}{2}$ ft.high, N.of cor. Pits impracticable.                                                                                                                                                                                                                                   |
| 44.00  | Bottom of ravine 150 ft.deep, course S.                                                                                                                                                                                                                                                                                                                                                                                                            |
|        | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 54.00  | Top of ridge bears N.and S.                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 80.00  | Set a trachyte stone 16x12x8 ins., 10 ins.in the ground for cor.to secs.27-28-33 and 34, marked with 1 notch on the S.and 3 notches on the E.edges, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high, W.of cor. Pits impracticable.                                                                                                                                                                                                    |
|        | Land mountainous.                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | Soil stony 3rd.rate.                                                                                                                                                                                                                                                                                                                                                                                                                               |
|        | No timber.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|        | Mountainous land and dense undergrowth on 80.00 chs.                                                                                                                                                                                                                                                                                                                                                                                               |

June 9, 1902.

## SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | June 10: At 7 a.m., l.m.t., I set off $41^{\circ} 08' N.$ on the lat.arc; $23^{\circ} 00' N.$ on the decl.arc; and determine a true meridian on the solar at the cor.of secs. 27-28-33 and 34.<br><br>Thence I run<br>West on a Sectional Correction Line bet.<br>secs. 28 and 33.<br><br>Descend through dense artemisia, maple and oak brush.<br><br>2.35 Bottom of ravine 200 ft. deep, course S.E.<br><br>Ascend.<br><br>21.00 Top of ridge bears N. and S.<br><br>Descend.<br><br>35.00 Bottom of ravine, course S. $15^{\circ}$ W., 200 ft. deep.<br><br>Ascend.<br><br>46.00 Set a trachyte stone 12x8x6 ins., 8 ins. in the ground, for $\frac{1}{4}$ sec.cor. marked with $\frac{1}{4}$ S. on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.<br>Pits impracticable.<br><br>46.00 Top of ridge bears N. and S.<br><br>Descend.<br><br>58.50 Bottom of ravine 150 ft. deep, course S. $10^{\circ}$ W.<br><br>Ascend.<br><br>63.00 Top of spur ridge projects S.<br><br>Descend.<br><br>79.90 Bottom of ravine 100 ft. deep, course S.<br><br>Ascend.<br><br>80.00 Set a trachyte stone 20x15x12 ins., 15 ins. in the ground, for cor.to secs. 28-29-32 and 33, marked with 1 notch on the S. and 4 notches on the E.edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.<br>Pits impracticable.<br><br>Land mountainous.<br><br>Soil gravelly 3rd.rate.<br><br>No timber.<br><br>Mountainous land and dense undergrowth on 80.00 obs. |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SUBDIVISIONS OF T.5 N., R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | West on a Sectional Correction Line, bet.<br>secs. 29 and 32.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|        | Ascend through dense artemisia, maple, oak and savis<br>berry brush.                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 4.00   | Top of spur ridge projects S.E.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 9.75   | Gulch course S.W.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 12.50  | Top of spur projects S.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 19.00  | Gulch course S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 31.50  | Top of spur projects S.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 34.00  | Bottom of Dry Creek Canon, right hand fork,<br>300 ft. deep, course S.E.<br>Begin steep ascent.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 40.00  | Set a trachyte stone 12x12x10 ins., 8 ins. in the<br>ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on the N. face, and<br>raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.<br>Pits impracticable.                                                                                                                                                                                                                                                                                              |
| 44.00  | Enter scattering aspen and pine timber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 59.00  | Top of rocky ridge 500 ft. above Dry Creek Canon,<br>Leave timber.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 65.00  | Head of ravine course S.15° E.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 80.00  | On a ridge bears N.E. and S.W., 2.00 chs. S.W. to junction<br>with a ridge bearing N.W. and S.E.<br>Set a trachyte stone 18x12x6 ins., 12 ins. in the<br>ground for cor. to secs. 29-30-31 and 32, marked with<br>1 notch on the S. and 5 notches on the E. edges, and<br>raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.<br>Pits impracticable.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber scattering aspen and pine on 15.00 chs.<br>Mountainous land and dense under growth on 80.00 chs. |

SUBDIVISIONS OF T.5 N. R.5 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | June 10: At this cor. I set off 23° 00' N. on the decl. arc; and at 11h.59m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is 41° 08' N.                                                                                                                                                                                                                                     |
|        | West on a Sectional Correction Line bet.<br>secs.30 and 31.                                                                                                                                                                                                                                                                                                                                       |
|        | Ascend through dense artemisia, laurel and oak brush.                                                                                                                                                                                                                                                                                                                                             |
| 2.00   | Top of ridge bears N.W. and S.E.<br>Enter heavy aspen timber.<br>Descend.                                                                                                                                                                                                                                                                                                                         |
| 16.00  | Head of ravine course N.W.<br>Enter scattering pine.<br>Begin steep ascent.                                                                                                                                                                                                                                                                                                                       |
| 32.50  | Top of rocky spur projects N.E.<br>Leave aspen timber enter dead and fallen pine.<br>Descend.                                                                                                                                                                                                                                                                                                     |
| 40.00  | Head of a fork of Arbuckle Canon course N.E.<br>Set a limestone 15x10x4 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on N.face, from which A Pine 20 ins. diam., bears N.78°E., 65 lks.dist., marked $\frac{1}{4}$ S.30, B.T.<br>A Pine 18 ins. diam., bears S.72°W., 1.12 chs.dist., marked $\frac{1}{4}$ S.31 B.T.<br>Begin steep ascent.                   |
| 41.00  | Enter heavy pine timber bears N. and S.                                                                                                                                                                                                                                                                                                                                                           |
| 72.00  | Leave live pine bears N. and S.<br>Enter fallen firekilled pine.                                                                                                                                                                                                                                                                                                                                  |
| 87.80  | Intersect W.Bdy. of Tp. H.0° 05'E. 70 lks.dist. from the cor. of secs.25-30-31 and 36, heretofore described.<br>Set a quartzite stone 15x8x6 ins. 10 ins. in the ground for closing cor. to secs.30 and 31, marked C.C. on the E.face, and with 1 groove on the S. and 5 grooves on the N.faces, and raise a mound of stone 2 ft. base $1\frac{1}{2}$ ft. high, E. of cor.<br>Pits impracticable. |

## SUBDIVISION OF T.5 N. R.3 E., continued.

CHAINS

I destroy all marks on the old cor. and the bearing trees that pertain to T.5 N. R.3 E.  
This cor. is 1000 ft. above the cor. of secs. 29-30-31 and 32.

Land mountainous.

Soil gravelly and rocky 3rd. and 4th. rate.

Timber aspen on 30.50 chs.

pine on 55.30 chs.

Mountainous land on 87.80 chs.

June 10, 1902.

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The E.Bdy. of the Tp. being defective in alignment, I establish a Sectional Guide Meridian as follows:

June 11: At the cor. of secs. 25-26-35 and 36, heretofore described.

At 7a.m., l.m.t., I set off 41°08' NN. on the lat.arc: 23°04' N. on the decl.arc: and determine with the solar a true meridian.

Knowing the line bet. secs. 35 and 36 will not nitse within limits on the S.Bdy. of the township.

I run

South on a Sectional Guide Meridian, bet. secs. 35 and 36.

Descend through dense artemisia, maple and oak brush.

.50 Small gulch course W.

Ascend.

10.80 Top of spur projects W.

Descend.

31.50 Bottom of ravine 100 ft. deep, course S.W.

Ascend.

40.00 Set a trachyte stone 15x10x6 ins., 10 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S. on W. face, and raise a mound of stone, 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

59.00 Top of ridge bears N.E. and S.W.

Descend.

SUBDIVISIONS OF T.45 N. R.3 E., continued.

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS<br>71.00 | Gulch course S.W.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 80.25           | On top of ridge bears E. and S.W.<br>Intersect the First Standard Parallel North,<br>N.89° 50' E., I.32 chs. dist. from the Standard Cor. to<br>secs. 35 and 36,<br>heretofore described.<br>Set a trachyte stone. 15x12x6 ins., 10 ins. in the<br>ground for closing cor. to secs. 35 and 36, marked with<br>C.C. on N., and with 1 groove on the E. and 5 grooves<br>on the W. faces, and raise a mound of stone 2 ft. base,<br>1½ ft. high, N. of cor.<br>Pits impracticable.<br>I destroy all marks on the Standard Cor. that pertain<br>to T.45 N. R.3 E.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>No timber.<br>Mountainous land and dense undergrowth on 80.25 chs. |
|                 | From the cor. of secs. 25-26-35 and 36<br>heretofore described.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                 | I run<br>North on a Sectional Guide Meridian, bet<br>secs. 25 and 26.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|                 | Ascend through dense artemisia, maple and oak brush.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 2.00            | Top of spur projects W.<br>Begin steep descent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5.50            | Cottonwood Creek 8 lks. wide, 10 ins. deep, in canon<br>300 ft. deep, course S.W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|                 | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 20.00           | Top of spur projects E.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|                 | Enter cottonwood timber, scattered along bottom of canon.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 24.75           | Same Cottonwood Creek, course from N. to S.E.<br>Thence in and along the creek.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 29.00  | Junction of Chrdwood Creek from the N.W. with Cottonwood Creek.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 37.00  | Leave Cottonwood Creek course from N.E. to S.<br>Leave cottonwood timber,<br>Enter scattering aspens, artemisia and oak brush.<br>Ascend along W.side of canon.                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 40.00  | Set a trachyte stone 12x9x6 ins., 8. ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S.on W.face ,from which An aspen 4 ins.diam., bears N.0° 30'W., 29 lks.dist., marked. $\frac{1}{4}$ S.26. B.T.<br>An aspen 3 ins.diam., bears S.9°E., 17 lks.dist., marked $\frac{1}{4}$ S.25 B.T.                                                                                                                                                                                                                                                                                   |
| 75.00  | Top of spur projects E. Leave aspens.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 80.00  | Set a trachyte stone 15x12x6 ins., 10 ins.in the ground for cor.of secs.23-24-25 and 26,marked with 2 notches on the S.and 4 notches on the N.edges, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.<br>Pits impracticable.<br>Land mountainous.<br>Soil gravelly 3rd.rate.<br>Timber cottonwoods on 17.00 chs.<br>scattering aspens on 38.00 chs.<br>Mountainous land and dense undergrowth on 80.00 chs.<br>June II: At this cor.I set off 23° 04'N.on the decl.<br>arc:and at IIh.59m., a.m., l.m.t.observe the sun on the meridian,the resulting lat.is 41° 09'N. |
| 5.25   | North on a Sectional Guide Meridian,bet.<br>secs.23 and 24.<br>Descend through dense artemisia,maple and oak brush.<br>Cottonwood Creek 10 lks,wide,6 ins.deep,in canon<br>300 ft.deep,course S.E.<br>Enter wild cherry and scattering aspens.                                                                                                                                                                                                                                                                                                                                               |
| 40.00  | Set a trachyte stone 16x9x7. ins.11 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S.on W.face,from which                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

## SUBDIVISION OF T.5.N. R.3.E., continued.

|        |                                                                                                                                                     |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | An aspen 3 ins.diam., bears N. $28^{\circ}$ E., 58 lks.dist., marked $\frac{1}{4}$ S.24 B.T.                                                        |
|        | An aspen 3 ins.diam., bears S. $14^{\circ}$ W., 33 lks.dist., marked $\frac{1}{4}$ S.33 B.T.                                                        |
| 45.00  | Leave aspen timber bears E. and W.                                                                                                                  |
| 64.00  | Top of ridge 300 ft. above the canon, bears N.W. and S.E. Descend.                                                                                  |
| 70.00  | Enter heavy aspen timber bears E. and W.                                                                                                            |
| 79.00  | Begins ascent.                                                                                                                                      |
| 80.00  | Set a trachyte stone 12x10x8 ins., 8 ins. in the ground for cor. of secs. I3-I4-23 and 24, marked with 3 notches on the N. and S. edges, from which |
|        | An aspen 3 ins.diam., bears N. $12^{\circ}$ E., 28 lks.dist., marked T.5 N. R.3 E. S.13 B.T.                                                        |
|        | An aspen 3 ins.diam., bears S. $60^{\circ}$ W., $9\frac{1}{2}$ lks.dist., marked T.5 N. R.3 E. S.23 B.T.                                            |
|        | An aspen 4 ins.diam., bears N. $60^{\circ}$ W., 19 lks.dist., marked T.5 N. R.3 E. S.14 B.T.                                                        |
|        | No other trees within limits.                                                                                                                       |
|        | And raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.                                                                          |
|        | Pits impracticable.                                                                                                                                 |
|        | Land mountainous.                                                                                                                                   |
|        | Soil gravelly 3rd.rate.                                                                                                                             |
|        | Timber aspens on 49.75 chs.                                                                                                                         |
| 80.00  | Mountainous land and dense undergrowth on 80.00 chs.                                                                                                |

June II, 1902.

June 12: At 7 a.m., 1.m.t., I set off  $41^{\circ}10'N$ . on the lat.arc:  $23^{\circ}09'N$ . on the decl.arc: and determine a true meridian with the solar at the cor.of secs. I3-I4-23 and 24.

Thence I run

North on a Sectical Guide Meridian, bet.  
secs. I3 and I4.

Ascend through heavy aspen and scattering pine timber.

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                     |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 16.50  | Top of ridge bears N.W. and S.E.                                                                                                                                                                                                                                    |
|        | Descend.                                                                                                                                                                                                                                                            |
| 29.00  | Bottom of ravine course S.E., 100 ft. deep.                                                                                                                                                                                                                         |
|        | Ascend.                                                                                                                                                                                                                                                             |
| 33.00  | Leave timber bears E. and W.                                                                                                                                                                                                                                        |
|        | Enter dense deck brush.                                                                                                                                                                                                                                             |
| 39.50  | Enter heavy aspen timber bears E. and W.                                                                                                                                                                                                                            |
| 40.00  | Set a trachyte stone 18x12x6 ins., 12 ins. in the ground<br>for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S.on W.face, from which<br>An aspen 10 ins. diam., bears N.2° E., 37 lks.dist.,<br>marked $\frac{1}{4}$ S.I3 B.T.                                      |
|        | An aspen 12 ins. diam., bears S.26°W., 48 lks.dist.,<br>marked $\frac{1}{4}$ S.I4 B.T.                                                                                                                                                                              |
| 60.00  | Leave aspens bear E. and W.                                                                                                                                                                                                                                         |
|        | Enter dense artemisia.                                                                                                                                                                                                                                              |
| 71.00  | Enter aspens bear N.E. and S.W.                                                                                                                                                                                                                                     |
| 78.50  | Top of ridge bears N.E. and S.W.                                                                                                                                                                                                                                    |
|        | Descend.                                                                                                                                                                                                                                                            |
| 79.50  | Leave aspens bear N.E. and W.                                                                                                                                                                                                                                       |
| 80.00  | Set a trachyte stone 15x12x6 ins., 10 ins. in the ground<br>for cor.of secs.II-I2-I3-and I4, marked with 4 notches<br>on the S. and 2 notches on the N.. edges,<br>from which<br>An aspen 5 ins.diam.bears N.46°E., 49 lks.dist.,<br>marked T.5 N. R.3 E. S.I2 B.T. |
|        | An aspen 6 ins.diam., bears S.69°E., 44 lks.dist.,<br>marked T.5 N. R.3 E. S.I3 B.T.                                                                                                                                                                                |
|        | An aspen 12 ins.diam., bears S.19°W., 57 lks.dist.,<br>marked T.5 N. R.3 E. S.I4 B.T.                                                                                                                                                                               |
|        | No other trees within limits..                                                                                                                                                                                                                                      |
|        | And raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high, W.of<br>cor.                                                                                                                                                                                          |
|        | Pits impracticable.                                                                                                                                                                                                                                                 |
|        | Land rolling.                                                                                                                                                                                                                                                       |
|        | Soil stony 3rd.rate.                                                                                                                                                                                                                                                |
|        | Timber aspens on 62.00 chs.                                                                                                                                                                                                                                         |
|        | Heavily timbered or dense undergrowth on 80.00 chs.                                                                                                                                                                                                                 |

## SUBDIVISION OF T.5 N. R.3 E., continued.

| CHAINS | North on a Sectional Guide Meridian bet.<br>secs. II and I2.                                                                                                                                                                                                                 |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Descend through dense artemisia and oak brush.                                                                                                                                                                                                                               |
| 1.00   | Ascend through scattering aspens.                                                                                                                                                                                                                                            |
| 6.50   | Old road bears N.E. and S.W.                                                                                                                                                                                                                                                 |
| 9.40   | Spring on line flows S.W.                                                                                                                                                                                                                                                    |
|        | Enter heavy aspen timber bears E. and W.                                                                                                                                                                                                                                     |
| 23.50  | Same old road bears N.W. and S.E.                                                                                                                                                                                                                                            |
| 28.50  | Same old road bears N.E. and S.W..                                                                                                                                                                                                                                           |
|        | Enter scattering pines.                                                                                                                                                                                                                                                      |
| 33.00  | Leave timber bears E. and W.                                                                                                                                                                                                                                                 |
|        | Enter dense artemisia, deer brush and oak.                                                                                                                                                                                                                                   |
| 40.00  | Set a trachyte stone 15x10x8 ins., 10 ins. in the ground<br>for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on W. face, and raise a mound<br>of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.                                                                    |
|        | Pits impracticable.                                                                                                                                                                                                                                                          |
| 54.00  | Top of Bybee Knoll 300 ft. above cor. of secs.<br>II-I2-I3 and I4,<br>The altitude here is about 8000 ft.                                                                                                                                                                    |
|        | Descend.                                                                                                                                                                                                                                                                     |
| 56.50  | Enter heavy aspen and scattering pine timber,<br>bears E. and W..                                                                                                                                                                                                            |
| 80.00  | Set a trachyte stone 18x10x8 ins., 12 ins. in the ground<br>for cor. of secs. I-2-II and I2, marked with 5 notches<br>on the S. and 1 notch on the N. edges, from which<br>An aspen 15 ins. diam., bears N. $84^{\circ}$ E., 39 lks. dist.,<br>marked T.5 N. R.3 E. S.I B.T. |
|        | An aspen 15. ins.diam., bears S. $68^{\circ}$ E., 39 lks.dist.,<br>marked T.5 N. R.3 E. S.I2 B.T.                                                                                                                                                                            |
|        | An aspen 15 ins.diam., bears S. $8^{\circ}$ 30' W., 17 lks.dist.,<br>marked T.5 N. R.3 E. S.II B.T.                                                                                                                                                                          |
|        | An aspen 6 ins.diam., bears N. $30^{\circ}$ 30' W., 12 lks.dist.,<br>marked T.5 N. R.3 E. S.2 B.T.                                                                                                                                                                           |
|        | Land mountainous.                                                                                                                                                                                                                                                            |
|        | Soil gravelly 3rd.rate.                                                                                                                                                                                                                                                      |
|        | Timber aspens and scattering pines on 55.50 chs.                                                                                                                                                                                                                             |
|        | Mountaineous land, dense undergrowth or                                                                                                                                                                                                                                      |

## SUBDIVISION OF T.5 N., R.3 E., continued.

CHAINS.

heavily timbered on 80.00 chs.

June 12: At this cor. I set off  $23^{\circ} 08' N.$  on the decl. arc; and at 11h.59m., a.m., l.m.t., observe the sun on the meridian, the resulting lat. is  $41^{\circ} 11' N.$

North on a Sectional Guide Meridian, bet:

secs. 1 and 2.

Descend through heavy aspen and scattering pine timber.

30.50 Leave timber bears E. and W.

Enter dense artemisia and dock weed.

40.00 Set a trachyte stone 15x12x5 ins. 10ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. on W. face, and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor.

Pits impracticable.

52.00 Begin abrupt descent, bears N.W. and S.E.

Enter heavy aspen and scattering pine timber.

64.00 Spring branch 2 lks. wide in bottom of ravine 200 ft. deep, course N.W.

Leave pine timber.

Begin steep ascent.

86.38 Intersect N. Bdy. of Tp. E. 2.95 chs. dist. from the cor. of secs. 1-2-35 and 36, which is a boulder 10x10x6 ins. above the ground marked as described by the surveyor general. I destroy marks pertaining to T.5 N. R.3 E. Set a trachyte stone 12x10x8 ins., 8 ins. in the ground for closing cor. to secs. 1 and 2, marked with C.C. on the S., 1 groove on the E. and 5 grooves on the W. faces, from which

An aspen 4 ins. diam., bears S.  $14^{\circ} 30' E.$ , 29 lks. dist., marked T.5 N. R.3 E. S.1 B.T.An aspen 4 ins. diam., bears S.  $21^{\circ} W.$ , 32 lks. dist., marked T.5 N. R.3 E. S.2 B.T.

Land mountainous.

Soil gravelly 3 rd. rate.

Timber aspen and scattering pine on 64.88 chs.

## SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                                                 |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | Mountainous land, dense undergrowth or heavily timbered on 86.38 chs.                                                                                                                                                                           |
|        | June 12, 1902.                                                                                                                                                                                                                                  |
|        | June 13: At 7 a.m., l.m.t., I set off $41^{\circ} 09' N.$ on the lat.arc; $23^{\circ} 12' N.$ on the decl.arc; and determine a true meridian with the solar at the cer.of secs. 23-24-25 and 26, heretofore described.                          |
|        | Thence I run                                                                                                                                                                                                                                    |
|        | East on a random line bet. secs. 24 and 25.                                                                                                                                                                                                     |
| 40.00  | Set temp. $\frac{1}{4}$ sec.cer.                                                                                                                                                                                                                |
| 79.62  | Intersect E.Bdy.of Tp., 3 lks.S. of cer.to secs. 24 and 25, heretofore described.                                                                                                                                                               |
|        | Thence I run                                                                                                                                                                                                                                    |
|        | $S.89^{\circ} 59' W.$ on a true line                                                                                                                                                                                                            |
|        | Bet. secs. 24 and 25.                                                                                                                                                                                                                           |
|        | Ascend through heavy aspens, scattering willows and pine timber.                                                                                                                                                                                |
| 39.62  | Set a trachyte stone $14 \times 9 \times 5$ . ins., 9 ins. in the ground for $\frac{1}{4}$ sec.cer. marked $\frac{1}{4}$ S. on N.face, from which An aspen 3 ins.diam., bears $N.85^{\circ} W.$ , 12 lks.dist., marked $\frac{1}{4}$ S. 24 B.T. |
|        | An aspen 3 ins.diam., bears $S.44^{\circ} W.$ , 19 lks.dist., marked $\frac{1}{4}$ S. 25 B.T.                                                                                                                                                   |
| 58.00  | Top of ridge 350 ft.above the sec.cer.<br>bears $N.10^{\circ} W.$ and $S.10^{\circ} E.$<br>Leave pine and willows.                                                                                                                              |
|        | Descend through oak and aspens.                                                                                                                                                                                                                 |
| 78.50  | Cottonwood Creek 8 lks.wide, 5 ins.deep, in bottom of canon 300 ft.deep, course $S.20^{\circ} E.$<br>Leave aspens.                                                                                                                              |
|        | Ascend.                                                                                                                                                                                                                                         |
| 79.62  | The cer.of secs. 23-24-25 and 26.<br>Land mountainous.<br>Soil gravelly 3rd.rate.<br>Timber aspen on 78.50 chs.                                                                                                                                 |

## SUBDIVISIONS OF T.5 N., R.3 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                                                       |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | Mountainous land on 79.62 chs.                                                                                                                                                                                                                                                                                                                                        |
|        | From the cor. to secs. I3-I4-23 and 24,<br>heretofore described.                                                                                                                                                                                                                                                                                                      |
|        | N.89° 59'E. On a random line bet. secs. I3 and 24.                                                                                                                                                                                                                                                                                                                    |
| 40.00  | Set temp. $\frac{1}{4}$ sec. cor.                                                                                                                                                                                                                                                                                                                                     |
| 78.78  | Intersect E. Bdy. of Tp., 3 lks. N. of the cor. to secs.<br>I3 and 24, heretofore described.<br><br>Thence I run                                                                                                                                                                                                                                                      |
|        | West on a true line bet.<br><br>secs. I3 and 24..                                                                                                                                                                                                                                                                                                                     |
|        | Ascend through heavy aspen timber.                                                                                                                                                                                                                                                                                                                                    |
| 5.00   | Leave timber bears N.W. and S.E.                                                                                                                                                                                                                                                                                                                                      |
| 6.00   | Top of ridge bears N.W. and S.E.                                                                                                                                                                                                                                                                                                                                      |
|        | Enter dense oak, maple and sarvis berry brush.                                                                                                                                                                                                                                                                                                                        |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                              |
| 21.00  | Tom Cendie Creek 5 lks. wide, 4 ins. deep, in canon 300<br>ft. deep, course S.E.                                                                                                                                                                                                                                                                                      |
|        | Enter scattering aspen timber.                                                                                                                                                                                                                                                                                                                                        |
| 38.78  | Set a trachyte stone 18x12x8 ins., 12 ins, in the<br>ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on N. face,<br>from which<br><br>An aspen 10 ins. diam., bears S.40°W., 1.77 chs. dist.,<br>marked $\frac{1}{4}$ S.24 B.T.<br><br>No other trees within limits.<br><br>And raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,<br>N. of cor. |
|        | Pits impracticable.                                                                                                                                                                                                                                                                                                                                                   |
| 53.00  | Top of ridge bears N.W. and S.E.                                                                                                                                                                                                                                                                                                                                      |
|        | Enter dense willows.                                                                                                                                                                                                                                                                                                                                                  |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                              |
| 61.00  | Bottom of ravine 150 ft. deep, course S.E.                                                                                                                                                                                                                                                                                                                            |
|        | Enter heavy aspen timber bears N.W. and S.E.                                                                                                                                                                                                                                                                                                                          |
|        | Ascend.                                                                                                                                                                                                                                                                                                                                                               |
| 78.78  | The cor. of secs. I3-I4-23 and 24.<br><br>Land mountainous.<br><br>Soil gravelly 3rd. rate.                                                                                                                                                                                                                                                                           |

SUBDIVISIONS OF T.5 N. R.3 E. continued.

|        |                                                                                                                                                                                                                                                                                                                                                                |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | <p>Timber aspens on 71.78 chs.<br/>Mountainous land on 78.78 chs.<br/>June 13: At this cor. I set off 23° 12' N. on the decl. arc; and at 12 M., 1.m.t., I observe the sun on the meridian, the resulting lat. is 41° 10' N.</p> <hr/> <p>From the cor. to secs. II-I2-I3 and I4, heretofore described.</p> <p>East on a random line bet. secs. I2 and I3.</p> |
| 40.00  | Set temp. $\frac{1}{4}$ sec. cor.                                                                                                                                                                                                                                                                                                                              |
| 78.01  | Intersect E. Bdy. of Tp., 12 lks. S. of the cor. to secs. I2 and I3, heretofore described.                                                                                                                                                                                                                                                                     |
|        | Thence I run                                                                                                                                                                                                                                                                                                                                                   |
|        | S. 89° 55' W. on a true line                                                                                                                                                                                                                                                                                                                                   |
|        | Bet. secs. I2 and I3.                                                                                                                                                                                                                                                                                                                                          |
|        | Ascend abruptly through heavy aspen timber.                                                                                                                                                                                                                                                                                                                    |
| I3.00  | Leave aspens bear N. and S.                                                                                                                                                                                                                                                                                                                                    |
|        | Enter dense artemisia.                                                                                                                                                                                                                                                                                                                                         |
| I8.00  | Top of steep ascent bears N. and S.                                                                                                                                                                                                                                                                                                                            |
|        | Leave artemisia.                                                                                                                                                                                                                                                                                                                                               |
|        | Enter dense dock brush.                                                                                                                                                                                                                                                                                                                                        |
|        | Ascend gradually.                                                                                                                                                                                                                                                                                                                                              |
| 36.00  | Enter dense artemisia.                                                                                                                                                                                                                                                                                                                                         |
| 38.01  | Set a trachyte stone 15x8x8 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.                                                                                                                                       |
| 46.50  | Top of low ridge bears N.W. and S.E.                                                                                                                                                                                                                                                                                                                           |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                       |
| 54.50  | Begin ascent.                                                                                                                                                                                                                                                                                                                                                  |
| 64.00  | Enter heavy aspen and scattering pine timber, bears N. and S.                                                                                                                                                                                                                                                                                                  |
| 75.50  | Top of low ridge bears N.E. and S.W.                                                                                                                                                                                                                                                                                                                           |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                       |
| 77.30  | Leave timber bears N.E. and S.W.                                                                                                                                                                                                                                                                                                                               |
| 78.01  | The cor. of secs. II-I2-I3 and I4.                                                                                                                                                                                                                                                                                                                             |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

CHAINS

Land mountainous on 18.00 chs.

balance rolling.

Soil gravelly 3rd.rate.

Timber aspens on 27.00 chs.

Heavily timbered on 27.00 chs.

Dense undergrowth on 51.01 chs.

From the cor.to secs.I-2-II and I2.

heretofore described.

N.89° 55' E.on a random line bet.secs.I and I2.

40.00 Set temp. $\frac{1}{4}$  sec.cor..

77.39 Intersect E.Bdy.of Tp.,7. lks.S.of the cor.to secs.

I and I2, heretofore described.

Thence I run

S.89° 52' W. on a true line

Bet.secs.I and I2.

Ascend along the top of a spur ridge bearing E.and W. through heavy aspen timber.

9.00 Enter scattering pine timber.

30.00 Top of ridge bears S.E.and N.W.

Descend.

34.00 Leave timber bears N.W.and S.E.

Enter dense artemisia.

35.00 Old road bears N.E.and S.W.

37.39 Set a trachyte stone 15x12x12 ins.,10 ins.in the ground for  $\frac{1}{4}$  sec.cor.,marked  $\frac{1}{4}$  S. on the N.face, and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high,N.of cor. Pits impracticable.

39.75 Enter marsh bears N.W.and S.E.

Enter dense willows.

47.00 Leave marsh and willows bear N.and S.

Ascend.

53.00 Enter heavy aspen and scattering pine timber.

65.75 Top of ridge bears N.E.and S.W.

Descend.

77.39 The cor.of secs.I-2-II and I2.

SUBDIVISIONS OF T.5 N. R.5 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | <p>Land rolling.</p> <p>Soil gravelly 3rd.rate.</p> <p>Timber aspen and scattering pine on 58.39 chs.</p> <p>Dense undergrowth on heavy timber on 77.39 chs.</p> <p>June 13, 1902.</p> <hr/> <p>June 14: At 7 a.m., l.m.t., I set off 41° 08'N.on the lat.arc; 23° 16'N.on the decl.arc; and determine a true meridian with the solar at the cor.of secs.26-27-34 and 35, heretofore described.</p> <p>Knowing the line bet.secs.34 and 35 will not close within limits on the S.Bdy. of the township I run S.0°01'E.on a true line bet.secs.34 and 35.</p> <p>Descend through dense artemisia, maple and oak brush.</p> |
| 2.25   | Fork of Cottonwood Creek 8 lks.wide, 6 ins.deep, in canon 300 ft.deep, course S.E.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 6.00   | Top of spur projects N.E.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 35.00  | Bottom of ravine 100 ft.deep, course S.E.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 40.00  | Set a trachyte stone 16x12x10 ins.10 ins.in the ground for $\frac{1}{4}$ . sec.cor., marked $\frac{1}{4}$ S. on W.face, and raise a mound of stone, 2ft.base, 1 $\frac{1}{2}$ ft.high, W.of cor. Pits impracticable.                                                                                                                                                                                                                                                                                                                                                                                                     |
| 49.00  | Top of spur ridge projects E.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 56.00  | Bottom of ravine 100 ft.deep, course S.E.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 69.00  | Top of ridge bears N.W. and S.E.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 77.00  | Bottom of ravine 150 ft.deep course S.E.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

SUBDIVISIONS OF T.5 N. R.3 E., continued,

CHAINS

80.50

Intersect the First Standard Parallel North,  
N.89° 50' E., 3.04 chs. dist. from the Standard Cor.  
to secs.34 and 35.  
heretofore described.  
Set a trachyte stone 16x9x8 ins., 11 ins. in the ground  
for closing cor. to secs.34 and 35, marked with C.C. on  
N., 2 grooves on E. and 4 grooves on W. faces, and raise  
a mound of stone 2 ft. base, 1½ ft. high, N. of cor.  
Pits impracticable.  
I destroy all marks on the Standard Cor. that pertain  
to T.5 N. R.3 E.  
Land mountainous.  
Soil gravelly 3rd. rate.  
No timber.  
Mountaineous land and dense undergrowth on 80.50 chs.

From the cor. to sec's.26-27-34 and 35,  
heretofore described.

I run

N.0° 01' W. bet. secs.26 and 27.

Ascend abruptly through dense artemisia, maple, oak  
and service berry brush.

40.00

Set a trachyte stone 12x10x8 ins., 8 ins. in the  
ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. on the W. face, and  
raise a mound of stone 2 ft. base, 1½ ft. high, W. of cor.  
Pits impracticable.

54.00

Enter young aspen timber bears E. and W.

70.00

Leave aspens bear E. and W.

80.00

Top of a ridge, 700 ft. above the cor. of secs.

26-27-34 and 35, bears N.W. and S.E.

Set a trachyte stone 18x12x10 ins., 12 ins. in the  
ground for cor. to secs.22-23-26-and 27, marked with  
2 notches on the S. and E. edges, and raise a mound of  
stone 2 ft. base, 1½ ft. high, W. of cor.

Pits impracticable.

Land mountainous.

## SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                     |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SHAINS | <p>Soil gravelly 3rd.rate.</p> <p>Timber young aspens on 16.00 chs.</p> <p>Mountainous land on 80.00 chs.</p> <p>June 14: At this cor. I set off 23° 16' N. on the decl. arc; and at 12 M., l.m.t., observe the sun on the meridian, the resulting lat. is 41° 09' N.</p> <hr/> <p>East, on a random line bet. secs. 23 and 26.</p> |
| 40.00  | Set temp. $\frac{1}{4}$ sec.cor.                                                                                                                                                                                                                                                                                                    |
| 80.08  | Intersect Sectional Guide Meridian, 3 lks.S. of the cor. to secs. 23-24-25 and 26.                                                                                                                                                                                                                                                  |
|        | Thence I run                                                                                                                                                                                                                                                                                                                        |
|        | S.89° 59' W. on a true line                                                                                                                                                                                                                                                                                                         |
|        | Bet. secs. 23 and 26.                                                                                                                                                                                                                                                                                                               |
|        | Ascend through dense artemisia and oak brush.                                                                                                                                                                                                                                                                                       |
| 8.00   | Enter heavy aspen timber, bears N. and S.                                                                                                                                                                                                                                                                                           |
| 26.00  | Leave aspens bear N. and S.                                                                                                                                                                                                                                                                                                         |
| 31.50  | Top of ridge, 250 ft. above sec.cor., bears N.W. and S.E.                                                                                                                                                                                                                                                                           |
|        | Descend.                                                                                                                                                                                                                                                                                                                            |
| 37.00  | Enter aspens bear N.W. and S.E.                                                                                                                                                                                                                                                                                                     |
| 40.04  | Set a trachyte stone 15x12x8 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on N. face, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor.                                                                                                                               |
|        | Pits imoracticable.                                                                                                                                                                                                                                                                                                                 |
| 54.00  | Cordwood Creek 5 lks. wide, 6 ins. deep, in bottom of ravine 250 ft. deep, course S.E.                                                                                                                                                                                                                                              |
|        | Begin abrupt ascent.                                                                                                                                                                                                                                                                                                                |
| 71.00  | Leave aspens bear N.W. and S.E.                                                                                                                                                                                                                                                                                                     |
| 74.00  | Top of steep ascent, 300 ft. above the canon.                                                                                                                                                                                                                                                                                       |
|        | Gradual ascent.                                                                                                                                                                                                                                                                                                                     |
| 80.08  | The cor. of secs. 22-23-26 and 27.                                                                                                                                                                                                                                                                                                  |
|        | Land mountainous.                                                                                                                                                                                                                                                                                                                   |
|        | Soil gravelly 3rd.rate.                                                                                                                                                                                                                                                                                                             |
|        | Timber aspens on 51.00 chs.                                                                                                                                                                                                                                                                                                         |
|        | Mountainous land on 80.08 chs.                                                                                                                                                                                                                                                                                                      |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | N.0° 01' W. bet. secs. 22 and 23.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|        | Over rocky land, descend through dense dock weed.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| II.00  | Enter heavy aspen timber bears N.W. and S.E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| I3.50  | Bottom of ravine 100 ft. deep course N.E.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| I7.00  | Top of spur projects E.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 38.20  | Cordwood Creek 2 lks. wide, 3 ins. deep, in ravine 100 ft. deep, course S.E.<br>This creek heads at Rock Spring which bears N.65° W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 5.00   | chs. dist.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 40.00  | Set a trachyte stone 15x10x8 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on W. face, from which<br>An aspen 10 ins. diam., bears N.88° 30'E., 8 lks. dist., marked $\frac{1}{4}$ S.23 B.T.<br>An aspen 8 ins. diam., bears S.23°W., 10 lks. dist., marked $\frac{1}{4}$ S.22 B.T.                                                                                                                                                                                                                                                                                                                                                     |
| 67.00  | Top of ridge bears N.E. and S.W.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 77.00  | Leave timber bears N.E. and S.W. Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 80.00  | Set a trachyte stone 18x10x8 ins. 12 ins. in the ground for cor. to secs. I4xI5x22 and 23, marked with 3 notches on the S. and 2 notches on the E. edges, from which<br>An aspen 4 ins. diam. bears N.84° 30'E., 78 lks. dist., marked T.5 N. R.3 E. S.I4 B.T.<br>An aspen 5 ins. diam., bears S.46°E., 70 lks. dist., marked T.5 N. R.3 E. S.23 B.T.<br>An aspen 5 ins. diam., bears S.6° 30'W., 2.43 chs. dist., marked T.5 N. R.3 E. S.22 B.T.<br>An aspen 6 ins. diam., bears N.75°W., I.II chs. dist., marked T.5 N. R.3 E. S.15 B.T.<br>Land rolling.<br>Soil stony 3rd. rate.<br>Timber aspens on 66.00 chs.<br>Heavily timbered or dense undergrowth on 80.00 chs. |

June 14, 1902.

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | <p>June 15: At 7 a.m.; l.m.t., I set off <math>41^{\circ} 10' N</math> on the lat.arc; <math>23^{\circ} 19' N</math> on the decl.arc; and determine a true meridian with the solar at the cor.of secs. I4-I5-22-and 23.</p> <p>Thence I run<br/>N.<math>89^{\circ} 59' E</math>.on a random line bet. secs. I4 and 23.</p> <p>40.00 Set temp. <math>\frac{1}{4}</math> sec.cor.</p> <p>80.00 Intersect Sectional Guide Meridian, 31ks.N. of the cor.to secs. I3-I4-23 and 24.</p> <p>Thence I run.<br/>west, on a true line bet.<br/>secs. I4 and 23.</p> <p>Ascend through heavy aspen timber.</p> <p>5.00 Top of ridge bears N.W. and S.E.</p> <p>Descend.</p> <p>15.50 Spring branch 1 lk.wide, course S.<br/>Head of spring 5.00 chs.N.</p> <p>29.20 Spring branch 1 lk.wide, course S.<br/>Head of Spring 7.00 chs.N.</p> <p>40.00 Set a trachyte stone 12x9x6 ins., 8 ins.in the ground for <math>\frac{1}{4}</math> sec.cor., marked <math>\frac{1}{4}</math> S.on N.face, from which An aspen 6 ins.diam., bears N.<math>82^{\circ} E.</math>, I.21 chs.dist., marked <math>\frac{1}{4}</math> S.I4 B.T.<br/>An aspen 6 ins.diam., bears S.<math>66^{\circ} E.</math>, I.09 chs.dist., marked <math>\frac{1}{4}</math> S.23 B.T.</p> <p>48.00 Spring branch 1 lk.wide, course S.W.<br/>The source is at Willow Springs 10.00 chs., N.<math>45^{\circ} E.</math><br/>Junction with Cottonwood Creek 2.00 chs.S.W.</p> <p>50.00 Cottonwood Creek 2 lks.wide, 3 ins.deep,<br/>course S.E.<br/>Ascend.</p> <p>72.00 Leave timber bears N. and S.</p> <p>78.00 Top of ridge bears N. and S.<br/>Enter scattering aspen and pine timber.<br/>Descend.</p> <p>79.50 Leave timber.</p> |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SUBDIVISIONS OF T.5 N. R.3 E., continued.

CHAINS

80.00 The cor. of secs. I4-I5-22 and 23.

*17*  
Land rolling.

Soil gravelly 3rd rate.

Timber aspen on 73.50 chs.

Heavily timbered on 72.00 chs.

---

N.0°01'W. bet. secs. I4 and I5.

Ascend.

.50 Top of low ridge bears N.W. and S.E.

Joins ridge running N. and S., 3.00 chs. S.E.

Gradual descent.

I.45 Old road bears N.E. and S.W.

I5.00 Enter heavy aspen and scattering pine timber,  
bears N.E. and S.W.

40.00 Set a trachyte stone 18x12x9 ins., 12 ins. in the  
ground for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S. on W.face,  
from which

An aspen 7 ins. diam., bears N.65°W., 41 lks. dist.,  
marked  $\frac{1}{4}$  S. I5 B.T.

A pine 6 ins. diam. bears S.60° E., 19 lks. dist.,  
marked  $\frac{1}{4}$  S. I4 B.T.

Begin gradual ascent.

80.00 On top of a ridge bears N.W. and S.E.

*65*  
*15*  
Set a trachyte stone 15x8x8 ins. 10 ins. in the ground  
for cor. of secs. I0-II-I4 and I5, marked with 4  
notches on the S. and 2 notches on the E. edges,  
from which

An aspen 6 ins. diam., bears N.80°E., 79 lks. dist.,  
marked T.5 N. R.3 E. S.II B.T.

An aspen 4 ins. diam., bears S.46°E., 50 lks. dist.,  
marked T.5 N. R.3 E. S.I4 B.T.

An aspen 5 ins. diam., bears S.7° 30'W., 44 lks. dist.,  
marked T.5 N. R.3 E. S.I5 B.T.

An aspen 4 ins. diam., bears N.50° 30'W., 54 lks. dist.  
marked T.5 N. R.3 E. S.I0 B.T.

Land rolling.

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                                                                                                                          |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | Soil gravelly. 3rd.rate.<br>Timber aspens on 65.00 chs.<br>Heavily timbered on 65.00 chs.<br>June 15: At this cor. I set off 23° 19' N. on the decl. arc; and at 12 M., l.m.t., observe the sun on the meridian, the resulting lat. is 41° 10' N.                                                                        |
| 40.00  | East, on a random line bet. secs. II and I4.<br>Set temp. $\frac{1}{4}$ sec.cor.                                                                                                                                                                                                                                         |
| 80.00  | Intersect Sectional Guide Meridian, 5 lks. N. of the cor. to secs. II-I2-I3-and I4.<br>Thence I run<br>N.89° 58' W. on a true line<br>Bet. secs. II and I4.                                                                                                                                                              |
| 5.00   | Descend.<br>Enter heavy aspen and scattering pine timber,<br>bears N.W. and S.E.                                                                                                                                                                                                                                         |
| 20.25  | Old road. bears N.E. and S.W.                                                                                                                                                                                                                                                                                            |
| 38.00  | Bottom of ravine course N.W., 150 ft. deep.<br>Ascend abruptly.                                                                                                                                                                                                                                                          |
| 40.00  | Set a trachyte stone 15x14x6 ins., 10 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on the N.face, from which<br>An aspen 7 ins. diam., bears S.86° W., 9 lks. dist., marked $\frac{1}{4}$ S. I4. B.T.<br>An aspen 8 ins. diam., bears N.65° W., 21 lks. dist., marked $\frac{1}{4}$ S. II B.T. |
| 45.00  | Top of spur ridge projects N.W.<br>Descend.                                                                                                                                                                                                                                                                              |
| 54.50  | Ascend.                                                                                                                                                                                                                                                                                                                  |
| 60.00  | Top of spur ridge projects N.W.<br>Descend.                                                                                                                                                                                                                                                                              |
| 70.50  | Head of ravine course N.W.<br>Ascend.                                                                                                                                                                                                                                                                                    |
| 80.00  | Top of ridge bears N.W. and S.E.<br>The cor. of secs. 10-II-I4 and 15.                                                                                                                                                                                                                                                   |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| DESCRIPTIVE | NOTES                                                                                                                                                                                                             |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|             | Land mountainous.                                                                                                                                                                                                 |
|             | Soil gravelly 3rd.rate.                                                                                                                                                                                           |
|             | Timber aspen on 75.00 chs.                                                                                                                                                                                        |
|             | Mountainous land on 80.00 chs.                                                                                                                                                                                    |
|             | June 15, 1902.                                                                                                                                                                                                    |
|             | June 16: At 7 a.m., l.m.t., I set off $41^{\circ} 10' N.$ on the lat.arc; $23^{\circ} 21' W.$ on the decl.arc; and determine a true meridian with the solar at the cor.of secs. I0-II-I4 and I5.                  |
|             | Thence I run.                                                                                                                                                                                                     |
|             | $N.0^{\circ} 01' W.$ bet. secs. I0 and II.                                                                                                                                                                        |
|             | Descend abruptly through heavy aspen and scattering pine timber.                                                                                                                                                  |
| 34.25       | Bybee Creek 5 lms. wide 4ins. deep, in canon 400 ft. deep course N.W.                                                                                                                                             |
|             | Leave timber bears N.W. and S.E.                                                                                                                                                                                  |
|             | Begin abrupt ascent.                                                                                                                                                                                              |
|             | Enter dense artemisia, laurel and oak.                                                                                                                                                                            |
| 40.00       | Set a trachyte stone $12 \times 10 \times 9$ ins., 3 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on W.face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. |
|             | Pits impracticable.                                                                                                                                                                                               |
| 48.00       | Top of spur ridge projects W.                                                                                                                                                                                     |
|             | Descend.                                                                                                                                                                                                          |
| 52.00       | Bottom of ravine 100 ft. deep, course W.                                                                                                                                                                          |
|             | Ascend.                                                                                                                                                                                                           |
| 59.20       | Top of spur ridge projects W.                                                                                                                                                                                     |
|             | Descend.                                                                                                                                                                                                          |
|             | Enter dense young aspens and willows.                                                                                                                                                                             |
| 70.00       | Bottom of ravine 150 ft. deep, course $N.80^{\circ} W.$                                                                                                                                                           |
|             | Leave aspens and willows.                                                                                                                                                                                         |
|             | Ascend abruptly.                                                                                                                                                                                                  |
| 79.00       | Top of ridge bears E. and W.                                                                                                                                                                                      |
|             | Enter aspens bear N.W. and S.E.                                                                                                                                                                                   |
|             | Descend.                                                                                                                                                                                                          |
| 80.00       | Set a trachyte stone $15-8-8$ ins., 10 ins. in the                                                                                                                                                                |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

CHAINS.

ground for cor. of secs. 3-3-10 and II, marked with 5 notches on the S. and 2 notches on the E. edges, from which

An aspen 2 ins.diam., bears N.80°E., 25 lks.dist., marked T.5 N. R.3 E. S.2 B.T.

An aspen 3 ins.diam., bears S.38°E., 40 lks.dist., marked T.5 N. R.3 E. S.II B.T.

An aspen 2 ins.diam., bears N.34°W., 47 lks.dist., marked T.5 N. R.3 E. S.3 B.T.

No other trees within limits, and raise a mound of stone 2 ft. base,  $\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

Land mountainous.

Soil gravelly 3rd.rate.

Timber aspens and scattering pine on 45.05 chs.

Mountainous land on 80.00 chs.

---

N.89° 58'E. on a random line bet, secs. 2 and II.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.00 Intersect Sectional Guide Meridian, 3 lks. S. of the cor. to secs. I-2-II and I2.

Thence I run

N.89° 59'W. on a true line

Bet. secs. 2 and II.

Descend through heavy aspen and pine timber.

1.50 Enter dense willows.

3.00 Leave willows.

7.50 Begin ascent.

27.00 Top of ridge bears N.W. and S.E.

Descent.

40.00 Set a trachyte stone 12x8x6 ins., 8 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S. on N. face, from which

An aspen 20 ins.diam., bears N.67° 30'W., 10 lks.dist., marked  $\frac{1}{4}$  S.2 B.T.

An aspen 20 ins.diam., bears S.75°W., 13 lks.dist., marked  $\frac{1}{4}$  S.II B.T.

70.00 Head of ravine course N.W.

SUBDIVISIONS OF T.S. N. R.3 E., continued.

|        |                                                                                                                                                     |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | Leave pine timber.                                                                                                                                  |
|        | Begin abrupt ascent.                                                                                                                                |
| 80.00  | The cor. of secs. 2-3-10 and II.                                                                                                                    |
|        | Land rolling.                                                                                                                                       |
|        | Soil gravelly 3rd. rate.                                                                                                                            |
|        | Timber pine and aspen on 80.00 chs.                                                                                                                 |
|        | Heavily timbered on 80.00 chs.                                                                                                                      |
|        | June 16: At this cor. I set off 23° 21' N. on the decl. arc: and at 12 M. l.m.t., observe the sun on the meridian, the resulting lat. is 41° 11' N. |
|        | Knowing the line bet. secs. 2 and 3 will not close within limits on the N. Bdy. of the Tp.                                                          |
|        | I run                                                                                                                                               |
|        | N. 0° 01' W. bet. secs. 2 and 3. on true line.                                                                                                      |
|        | Descend abruptly through heavy aspen timber.                                                                                                        |
| 14.00  | Bottom of ravine 150 ft. deep, course N.W.                                                                                                          |
|        | Ascend.                                                                                                                                             |
| 32.00  | Top of spur projects N.W.                                                                                                                           |
|        | Descend.                                                                                                                                            |
| 40.00  | Set a quartzite stone 18x12x4 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on W. face, from which:              |
|        | An aspen 3 ins. diam., bears S. 4° E., 5 lks. dist., marked $\frac{1}{4}$ S. 2 B.T.                                                                 |
|        | An aspen 2 ins. diam. bears S. 63° W., 13 lks. dist., marked $\frac{1}{4}$ S. 3 B.T.                                                                |
| 51.00  | Bottom of ravine course W.                                                                                                                          |
|        | Ascend.                                                                                                                                             |
| 55.00  | Top of spur projects N.W.                                                                                                                           |
|        | Begin abrupt descent.                                                                                                                               |
| 60.00  | Spring branch 3 lks. wide, 6 ins. deep, in bottom of ravine 200 ft. deep, course N.W.                                                               |
|        | Leave timber.                                                                                                                                       |
|        | Ascend.                                                                                                                                             |
|        | Enter dense artemisia, oak and laurel.                                                                                                              |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS<br>68.50 | Top of spur projects W.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 86.39           | Intersect N.Bdy. of the Tp.E., 3.21 chs. from the cor. of<br>secs. 2-3-34 and 35, which is a boulder 8x8x6 ins. above<br>ground, marked as described by the surveyor general.<br>I destroy all marks pertaining to T.5 N. R.3 E. and<br>set a trachyte stone 18x15x8 ins., 12 ins. in the<br>ground for closing cor. to secs. 2 and 3, marked with<br>C.C. on the S., 2 grooves on the E. and 4 grooves on the<br>W. faces, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft.<br>high, S. of cor.<br>Pits impracticable.<br>This cor. is 1000 ft. below the cor. of secs. 2-3-10 and<br>II.<br>The forks of Cottonwood bear W. 6.00 chs. dist.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber aspen on 60.00 chs.<br>Mountainous land on 86.39 chs. |

June 16, 1902.

June 17: At 7 a.m., l.m.t., I set off  $41^{\circ} 08' N.$  on the  
lat. arc;  $23^{\circ} 24' N.$  on the decl. arc; and determine  
a true meridian with the solar, at the cor. of  
secs. 27-28-33 and 34,  
heretofore described.  
Knowing the line bet. secs. 33. and 34 will not close  
within limits on the S.Bdy. of township  
I run  
S.  $0^{\circ} 02' E.$  on a true line  
Bet. secs. 33 and 34.  
Descend through dense artemisia, oak and service  
berry brush.  
8.00 Begin ascent.  
38.50 Top of spur projects S.W.  
Descend.  
40.00 Set a trachyte stone 12x10x6 ins., 8 ins. in the

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | ground for $\frac{1}{4}$ sec.cor.marked $\frac{1}{4}$ S.on W.face, and raise a mound of stone 2 ft.base $1\frac{1}{2}$ ft.high, N.of cor.<br>Pits impracticable.                                                                                                                                                                                                                                                                        |
| 62.00  | Bettem of ravine 150 ft.deep course S.W.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                     |
| 69.00  | Top of spur projects S.W.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                   |
| 80.77  | Intersect the First Standard Parallel North,<br>N.89° 48' E., 4.40 chs.dist.from the Standard Cor.to<br>secs.33 and 34.<br>heretofore described.<br><br>Set a trachyte stone 15 x10x8 ins., 10 ins.in the<br>ground for closing cor.to secs.33 and 34.marked<br>with C.C. on the N.; and with 3 grooves on the E.and<br>W.faces, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.<br>high; N.of cor.<br><br>Pits impracticable. |
|        | I destroy all marks on the Standard Cor.that pertain<br>to T.5 N. R.3 E.<br><br>This cor.is 400 ft.below the cor.of secs.<br>27-28-33 and 34.<br><br>Land mountainous.<br><br>Soil gravelly 3rd.rate.<br><br>No timber.<br><br>Mountainous land and<br><br>Dense undergrowth on 80.77 chs.                                                                                                                                              |
|        | From the cor.to secs.27-28-33 and 34,<br>heretofore described.<br><br>I run<br>N.0° 02' W:bet.secs.27 and 28.<br><br>Ascend through dense artemisia, maple, oak and service<br>berry brush.                                                                                                                                                                                                                                             |
| 37.00  | Top of ridge 250 ft.above the sec.cor.,<br>bears N.E. and S.W.<br><br>Descend.                                                                                                                                                                                                                                                                                                                                                          |
| 40.00  | Set a trachyte stone 12x10x6 ins., 8 ins,in the                                                                                                                                                                                                                                                                                                                                                                                         |

## SUBDIVISIONS OF T.5 N., R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | ground far & sec. cor., marked + S. on W. face, and raise a mound of stone 2 ft. base 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.                                                                                                                                                                                                                                                                                                                                |
|        | Begin abrupt ascent.                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 47.00  | Top of high spur projects S.W.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 59.00  | Begin ascent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 64.00  | Top of spur projects S.W.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 69.00  | Head of ravine course S.W.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 73.00  | Top of spur projects S.W.                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 76.50  | Head of ravine course S.W.                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Enter scattering aspens.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|        | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 80.00  | Set a trachyte stone 15x12x9 ins., 10 ins. in the ground for cor. of secs. 21-22-27 and 28, marked with 2 notches on the S. and 3 notches on the E. edges, from which An aspen 3 ins. diam., bears S.32°E., 30 lks. dist., marked T.5 N. R.3 E. S.27 B.T. An aspen 4 ins. diam., bears S.69°W., 1.14 chs. dist., marked T.5 N. R.3 E. S.28 B.T. No other trees within limits, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. |
|        | Land mountainous.                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|        | Soil gravelly 3rd. rate.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|        | Timber scattering aspens on 3.50 chs.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|        | Mountainous land on 80.00 chs.                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | June 17: At this cor. I set off 23° 23' N. on the decl. arc; and at 12 M., 1.m.t., observe the sun on the meridian, the resulting lat. is 41° 09' N.                                                                                                                                                                                                                                                                                                                          |

## SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                             |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | EAST on a random line bet. secs. 22 and 27.                                                                                                                                                                                 |
| 40.00  | Set temp. $\frac{1}{4}$ sec. cor.                                                                                                                                                                                           |
| 80.06  | Intersect N. and S. line, 3 lks. S. of the cor. to secs. 22-23-26 and 27.<br>Thence I run                                                                                                                                   |
|        | S. 89° 59' W. on a true line<br>Bet. secs. 22 and 27.                                                                                                                                                                       |
|        | Descend through dense deck weed..                                                                                                                                                                                           |
| 6.00   | Head of ravine course S..<br>Ascend.                                                                                                                                                                                        |
| 26.50  | Top of spur projects S..<br>Begin abrupt descent.                                                                                                                                                                           |
| 40.03  | Set a trachyte stone 16x12x8 ins., II ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.<br>Pits impracticable. |
| 43.50  | Bottom of ravine 200 ft. deep, course S..<br>Ascend abruptly.                                                                                                                                                               |
| 45.00  | Enter heavy aspen and scattering pine timber,<br>bears N. and S..                                                                                                                                                           |
| 58.00  | Top of ridge bears N.E. and S.W..<br>Descend.                                                                                                                                                                               |
| 61.50  | Ascend.                                                                                                                                                                                                                     |
| 74.00  | Top of ridge bears N.W. and S.E..<br>Descend.<br>Leave heavy timber bears N.W. and S.E.<br>Enter scattering aspens.                                                                                                         |
| 80.06  | The cor. of secs. 21-22-27 and 28.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber aspen and scattering pine on 36.50 chs.<br>Mountainous land on 80.06 chs.                                                     |

June 17, 1902.

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | June 18: At 7 a.m., l.m.t., I set off $41^{\circ} 09' N.$ on the lat.arc; $23^{\circ} 25' N.$ on the decl.arc; and determine a true meridian with the solar at the cor.of secs.21-22-27 and 28.                                                                                                                                                                                                                                                                                                                                                                                              |
|        | Thence I run<br>N. $0^{\circ}02' W.$ bet. secs.21 and 22.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Ascend through dense artemisia, oak and scattering aspen timber..                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 5.50   | Top of ridge bears S.E. and W.<br>Begin abrupt descent.<br>Enter heavy pine and aspen timber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 32.00  | Old road bears E. and W.<br>Leave pine timber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 32.50  | Taylor Creek 3 lks. wide, 4 ins. deep, in canon 300 ft. deep course W.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 35.00  | Leave aspen timber bears E. and W.<br>Enter dense artemisia, laurel and oak brush.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 40.00  | Set a trachyte stone $15 \times 12 \times 8$ ins., 10. ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.<br>Pits impracticable.                                                                                                                                                                                                                                                                                                                                                  |
| 50.00  | Top of ridge bears N. $75^{\circ} W.$ and S. $75^{\circ} E.$<br>Enter heavy aspen and pine timber.<br>Begin abrupt descent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 80.00  | Set a quartzite stone $30 \times 24 \times 15$ ins., 23 ins. in the ground for cor.of secs.15-16-21 and 22, marked<br>5 N. on N.E., and<br>3 E. on S.E.faces,<br>and with 3 notches on the S. and E. edges, from which A pine 18 ins. diam., bears N. $25^{\circ} 30' E.$ , 30 lks.dist., marked T.5 N. R.3 E. S.15 B.T.<br>A pine 15 ins. diam., bears S. $32^{\circ} E.$ , 29 lks.dist., marked T.5 N. R.3 E. S.22 B.T.<br>An aspen 4 ins. diam., bears S. $77^{\circ} W.$ , 13 lks.dist., marked T.5 N. R.3 E. S.21 B.T.<br>A pine 6 ins. diam., bears N. $25^{\circ} W.$ , 13 lks.dist., |

SUBDIVISIONS OF T.45 N., R.3 E., continued.

| CHAINS |                                                                                                                                        |
|--------|----------------------------------------------------------------------------------------------------------------------------------------|
|        | marked T.5 N., R.3 E., S.16 B.T.                                                                                                       |
|        | Land mountainous.                                                                                                                      |
|        | Soil gravelly 3rd.rate.                                                                                                                |
|        | Timber aspen and pine on 65.00 chs.                                                                                                    |
|        | Mountainous land on 80.00 chs.                                                                                                         |
|        | <hr/>                                                                                                                                  |
| 40.00  | N.89° 59' E. on a random line bet. secs. I5 and 22<br>Sst temp. $\frac{1}{4}$ sec.cor.                                                 |
| 80.04  | Intersect N. and S. line 3 lks. N. of the cor. of<br>secs. I4-I5-22 and 23.                                                            |
|        | Thence I run                                                                                                                           |
|        | ✓<br>West on a true line bet.                                                                                                          |
|        | secs. I5 and 22.                                                                                                                       |
|        | Descend.                                                                                                                               |
| .25    | Old road bears N.E. and S.                                                                                                             |
| 2.50   | Enter heavy aspen and pine timber bears N. and S.                                                                                      |
| 24.50  | Spring branch 1 lk. wide, course N.W.                                                                                                  |
|        | Head of spring is 2.00 chs. S.E. in dense willows.                                                                                     |
| 40.02  | Set a trachyte stone 15x9x8 ins. 10 ins. in the ground<br>for $\frac{1}{2}$ sec.cor. marked $\frac{1}{4}$ S. on N. face,<br>from which |
|        | An aspen 7 ins. diam., bears S.86° E., 6 lks. dist.,<br>marked $\frac{1}{4}$ S. 22 B.T.                                                |
|        | A pine 15 ins. diam., bears N.86° W., 66 lks. dist.,<br>marked $\frac{1}{4}$ S. 15 B.T.                                                |
| 44.00  | Begin ascent.                                                                                                                          |
| 47.50  | Top of spur projects N.W.                                                                                                              |
|        | Descend.                                                                                                                               |
| 52.50  | Bottom of ravine 150 ft. deep, course N.W.                                                                                             |
|        | Ascend.                                                                                                                                |
| 62.00  | Top of spur projects N.W.                                                                                                              |
|        | Descend.                                                                                                                               |
| 67.50  | Bottom of ravine 100 ft. deep, course N.W.                                                                                             |
|        | Ascend.                                                                                                                                |
| 73.50  | Top of spur projects N.W.                                                                                                              |
|        | Descend.                                                                                                                               |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|                 |                                                                                                                                                                                                                                                                                                                                                                                |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS<br>80.04 | The cor. of secs. I5-I6-21 and 22.<br><br>Land mountainous.<br><br>Soil gravelly 3rd.rate.<br><br>Timber aspen and pine on 77.50' chs.<br><br>Mountainous land or<br><br>heavily timbered on 80.04 chs.<br><br>June 18: At this cor. I set off 23° 25'N.on the decl.<br>arc; and at Oh.01M., p.m., l.m.t., observe the sun on<br>the meridian, the resulting iat. is 41° 10'N. |
|                 | N.0° 02'W. bet:secs.I5 and I6.<br><br>Descend through heavy aspen and pine timber.                                                                                                                                                                                                                                                                                             |
| 20.25           | Layton Creek 8 lks.wide, 4 ins.deep, in canon 300 ft.<br>deep, course N.80° W.<br><br>Leave timber.<br><br>Begin abrupt. ascent.                                                                                                                                                                                                                                               |
| 35.50           | Top of ridge bears. N.W. and S.E.<br><br>Enter heavy aspen timber bears N.W. and S.E.<br><br>Descend.                                                                                                                                                                                                                                                                          |
| 40.00           | Set a trachyte stone 15x12x8 ins. 10 ins.in the<br>ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on W.face,<br>from which<br><br>An aspen 3 ins.diam., bears. N.28°W., 37 lks.dist.,<br>marked $\frac{1}{4}$ S.I6 B.T.<br><br>An aspen 4 ins.diam., bears N.71°E., 43 lks.dist.,<br>marked $\frac{1}{4}$ S.I5 B.T.                                                |
| 46.00           | Bottom of ravine 100 ft.deep, course N.W.<br><br>Ascend..                                                                                                                                                                                                                                                                                                                      |
| 52.00           | Top of ridge bears N.W. and S.E.<br><br>Descend.                                                                                                                                                                                                                                                                                                                               |
| 72.00           | Bottom of ravine 150 ft.deep, course N.W.<br><br>Ascend..                                                                                                                                                                                                                                                                                                                      |
| 80.00           | Set a trachyte stone 18x10x8 ins., 12 ins.in the<br>ground for cor.of secs.9-10-15 and 16, marked with<br>4 notches on the S. and 3 notches on the E.edges,<br>from which                                                                                                                                                                                                      |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                  |
|--------|----------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | An aspen 2 ins.diam., bears N.88°E., 7 lks.dist., marked T.5 N. R.3 E. S.10 B.T.                                                 |
|        | An aspen 3 ins.diam., bears S.51°E., 10 lks.dist., marked T.5 N. R.3 E. S.15 B.T.                                                |
|        | An aspen 2 ins.diam., bears S.83°W., 16 lks.dist., marked T.5 N. R.3 E. S.16 B.T.                                                |
|        | An aspen 2 ins.diam., bears N.30°W., 10 lks.dist., marked T.5 N. R.3 E. S.9 B.T.                                                 |
|        | Land mountainous                                                                                                                 |
|        | Soil gravelly 3rd.rate.                                                                                                          |
|        | Timber aspen and pine on 64.75 chs.                                                                                              |
|        | Mountainous land on 80.00 chs.                                                                                                   |
|        | East on a random line betsecs.10 and 15                                                                                          |
| 40.00  | Set temp. $\frac{1}{4}$ sec.cor.                                                                                                 |
| 80.02  | Intersect N.and S.line 3 lks.S.of the cor.of secs. IO-II-I4 and I5.                                                              |
|        | Thence I run                                                                                                                     |
|        | S.89° 59'W.on a true line                                                                                                        |
|        | Bet.secs.I0 and I5.                                                                                                              |
|        | Descend through heavy aspen and scattering pine timber.                                                                          |
| 16.00  | Leave timber bears N.W.and S.E.                                                                                                  |
|        | Enter dense artemisia, oak and deerbrush.                                                                                        |
| 22.00  | Begin abrupt descent.                                                                                                            |
| 40.01  | Set a trachyte stone 18x14x6 ins., 12 ins.in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S.on N.face, from which |
|        | An aspen 6 ins.diam., bears S.13°E., 79 lks.dist., marked $\frac{1}{4}$ S.15 B.T.                                                |
|        | A pine 8 ins.diam., bears N.84°W.1.56 chs.dist., marked $\frac{1}{4}$ S.10 B.T.                                                  |
| 41.50  | Fork of Bybee Creek 5 lks.wide, 4 ins.deep, in canon 250 ft.deep, course N.W.                                                    |
|        | Enter heavy aspen and pine timber,bears N.W.and S.E.                                                                             |
|        | Begin abrupt ascent.                                                                                                             |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

CHAINS.

- 59.65 Top of ridge bears N.W. and S.E.  
 Leave pine timber.  
 Descend.  
 80.02 The cor. of secs. 9-10-15, and 16.  
 Land mountainous.  
 Soil gravelly 3rd. rate.  
 Timber aspen and pine on 54.50 chs.  
 Mountainous land on 80.02 chs.

June 18, 1902.

June 19: At 7 a.m., l.m.t., I set off 41° 10' N. on the lat. arc; 23° 27' N. on the decl. arc; and determine a true meridian with the solar at the cor. of secs. 9-10-15 and 16.

Thence I run

N. 0° 02' W. bet. secs. 9 and 10.

- Ascend through heavy aspen timber.  
 1.00 Leave aspens bear E. and W.  
 2.25 Top of spur projects W.  
 Enter dense artemisia, laurel, oak and deer brush.  
 Descend.  
 8.00 Bottom of ravine 100 ft. deep, course N.W.  
 Begin abrupt ascent.  
 20.00 Top of spur ridge projects N.W.  
 Descend.  
 31.00 Head of ravine course N.W.  
 Ascend.  
 32.00 Enter aspen timber bears N.W. and S.E.  
 37.00 Top of ridge bears N.W. and S.E.  
 Begin abrupt descent.  
 40.00 Set a trachyte stone 15x10x8 ins., 10ins. in the ground for  $\frac{1}{4}$  sec. cor., marked  $\frac{1}{4}$  S. on W. face, from which  
 An aspen  $2\frac{1}{2}$  ins. diam., bears N. 16° W., 6 lbs. dist., marked  $\frac{1}{4}$  S. 9 B.T.  
 An aspen 3 ins. diam., bears N. 88° E., 11 lbs. dist., marked  $\frac{1}{4}$  S. 10 B.T.

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 63.00  | Leave aspens bear N.W. and S.E.<br>Enter dense artemisia.                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 69.00  | Foot of abrupt descent.<br>Begin gradual descent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 80.00  | Point for cor. falls on a quartzite boulder $4 \times 3 \times 2\frac{1}{2}$ ft.<br>above the ground, I cut a cross 'X' at exact point<br>for cor. of secs. 3-4-9 and 10, and mark 5 grooves on<br>the S. and 3 grooves on the E. side of cross, and raise<br>a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.<br>Pits impracticable.<br>This cor. is 300 ft. below top of ridge 43.00 chs. S.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber aspens on 32.00 chs.<br>Mountainous land on 80.00 chs. |

|       |                                                                                                                                                                                                                                                                                                                                                                            |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | N. $89^{\circ} 59' E.$ on a random line bet. secs. 3 and 10.                                                                                                                                                                                                                                                                                                               |
| 40.00 | Set temp. $\frac{1}{4}$ sec.cor.                                                                                                                                                                                                                                                                                                                                           |
| 80.12 | Intersect N. and S. line 5 lks. S. of the cor. of<br>secs. 2-3-10 and 11.<br>Thence I run<br>S. $89^{\circ} 57' W.$ on a true line<br>Bet. secs. 3 and 10.<br>Descend along the N. slope of a ridge bearing E. and<br>W., through heavy aspen timber.                                                                                                                      |
| 40.06 | Set a trachyte stone $15 \times 14 \times 7$ ins., 10 ins. in the<br>ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on the N. face,<br>from which<br>An aspen 3 ins. diam., bears S. $20^{\circ} E.$ , 17 lks. dist.,<br>marked $\frac{1}{4}$ S. 10 B.T.<br>An aspen 2 ins. diam., bears N. $44^{\circ} W.$ , 14 lks. dist.,<br>marked $\frac{1}{4}$ S. 3 B.T. |
| 50.00 | Top of ridge bears S. $85^{\circ} E.$ and W.<br>Leave aspen timber bears N.W. and S.E.<br>Enter dense artemisia, oak and laurel.<br>Descend along top of ridge.                                                                                                                                                                                                            |

SUBDIVISIONS OF T. 5 N. R. 3 E., continued.

| CHAINS |                                                                                                                                                                                                                                        |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 54.00  | Same ridge bears E. and N.E.<br>Begin abrupt descent.                                                                                                                                                                                  |
| 70.50  | Bybee Creek 10 lks. wide, 6 ins. deep, in canon 300 ft. deep, course N.W.<br>A few cottonwoods scattered along the bottom of the canon.                                                                                                |
|        | Begin abrupt ascent.                                                                                                                                                                                                                   |
| 73.00  | Top of abrupt ascent.                                                                                                                                                                                                                  |
|        | Begin gradual ascent.                                                                                                                                                                                                                  |
| 80.12  | The cor. of secs. 3-4-9 and I.O.<br>This cor. is 800 ft. below the cor. of secs. 3-3-I.O and II.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber aspens on 50.00 chs., a few cottonwoods.<br>Mountainous land on 80.12 chs. |
|        | June 19: At this cor. I set off 23° 26' N. on the decl. arc; and at Oh. 01M', p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 41° 11' N.                                                                          |
|        | Knowing the line bet. secs. 3 and 4 will not close within limits on the N. Bdy. of the Tp.                                                                                                                                             |
| I.60   | I run<br>N. 00° 02' W. bet. secs. 3 and 4, on true line<br>Descend through dense artemisia and oak brush.                                                                                                                              |
|        | Enter cottonwood timber.                                                                                                                                                                                                               |
| 5.50   | Bybee Creek 10 lks. wide, 6 ins. deep, in canon 300 ft. deep, course N.W.<br>The junction of Bybee and Cottonwood Creeks bears N.W. 10 chs. dist.                                                                                      |
|        | Begin abrupt ascent.                                                                                                                                                                                                                   |
| 7.40   | Top of gravel spur projects W.<br>Begin abrupt descent.                                                                                                                                                                                |
| II.25  | Cottonwood Creek 25 lks. wide, 12 ins. deep, in bottom of canon, 400 ft. deep, course S.W.                                                                                                                                             |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 13.00  | Leave cottonwoods.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|        | Begin abrupt ascent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 37.00  | Top of spur projects S.E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 40.00  | Set 4 trachyte stone 24x12x8 ins., 18 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on the W.face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor. Pits impracticable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 41.75  | Spring branch 1 lk.wide in bottom of ravine 150 ft. deep, course S.E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | Begin abrupt ascent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 78.00  | Top of spur 600 ft. above Cottonwood Creek, projects E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 80.50  | Enter heavy aspen and scattering pine timber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 86.43  | Intersect N.Bdy.of Tp., East, 3.44 chs.dist. from the cor.of secs.3-4-33 and 34, which is a boulder 12x10x10 ins.above the ground, marked and witnessed as described by the surveyor general.<br><br>I destroy all marks on the stone and bearings trees pertaining to T.5 N. R.3 E., and set a trachyte stone 20x10x8 ins., 15 ins. in the ground for closing cor.to secs.3 and 4, marked with C.C.on the S., 3 grooves on the E.and W. faces, from which<br><br>An aspen 4 ins.diam., bears S.41°E., 16 lks.dist., marked T.5 N. R.3 E. S.3 B.T.<br><br>An aspen 4 ins.diam., bears S.18°W., 28 lks.dist., marked T.5 N. R.3 E. S 4 B.T.<br><br>Land mountainous.<br><br>Soil gravelly 3rd.rate.<br><br>Timber cottonwoods on 11.40 chs.<br>aspen and scattering pine on 5.93 chs.<br>Mountainous land on 86.43 chs. |

June 19, 1902.

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                           |
|--------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | June 20. At 7 a.m., l.m.t., I set off $41^{\circ} 08' N.$ on the lat.arc; $23^{\circ} 28' N.$ on the decl.arc; and determined a true meridian with the solar, at the cst. of secs. 28-29-32 and 33, heretofore described. |
|        | Knowing the line bet.secs.32 and 33 will not close within limits. on the S.Bdy.of the Tp.                                                                                                                                 |
| I run  |                                                                                                                                                                                                                           |
|        | $S.0^{\circ} 08' E.$ on a true line                                                                                                                                                                                       |
|        | Bet. secs. 32 and 33.                                                                                                                                                                                                     |
|        | Descend through dense artemisia, maple and oak brush.                                                                                                                                                                     |
| .50    | Bottom of ravine 100 ft. deep, course S.W.                                                                                                                                                                                |
|        | Ascend.                                                                                                                                                                                                                   |
| 1.00   | Descend.                                                                                                                                                                                                                  |
| 1.50   | Same ravine course S.E.                                                                                                                                                                                                   |
|        | Ascend.                                                                                                                                                                                                                   |
| 3.85   | Top of spur projects S.E.                                                                                                                                                                                                 |
|        | Descend.                                                                                                                                                                                                                  |
| 9.50   | Bottom of gulch course S.E.                                                                                                                                                                                               |
|        | Ascend.                                                                                                                                                                                                                   |
| 15.50  | Top of spur projects S.E.                                                                                                                                                                                                 |
|        | Begin abrupt descent.                                                                                                                                                                                                     |
| 21.40  | Dry bed of the Right Hand Fork of Dry Creek, in bottom of canon 200 ft. deep, course S.E.                                                                                                                                 |
|        | Ascend.                                                                                                                                                                                                                   |
| 40.00  | Top of spur projects S.E.                                                                                                                                                                                                 |
|        | Set a trachyte stone $12 \times 12 \times 6$ ins., 8 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on W.face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W.of cor.          |
|        | Pits impracticable.                                                                                                                                                                                                       |
|        | Descend.                                                                                                                                                                                                                  |
| 45.00  | Conglomerate ledges 50 ft. high bear N.W. and S.E.                                                                                                                                                                        |
|        | Begin abrupt descent.                                                                                                                                                                                                     |
| 55.30  | Dry bed of Dry Creek, in canon 300 ft. deep, course S.E. There is a spring in the bottom of the canon 5.00 chs.S.E.                                                                                                       |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | Begin abrupt ascent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 63.00  | Top of ridge bears N.W. and S.E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | Enter mahogany.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 68.00  | Bottom of ravine 100 ft. deep, course E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|        | Enter dense laurel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|        | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 74.50  | Top of spur projects N.E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 78.00  | Head of ravine course N.E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|        | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 81.27  | Intersect the First Standard Parallel North,<br>N.89° 30' E., 5.63 chs. dist., from the Standard Cor. to<br>secs. 32 and 33.<br>heretofore described.<br><br>Set a limestone 20x18x5 ins., 15 ins. in the ground<br>for closing cor. to secs. 32 and 33, marked with C.C.<br>on the N., with 4 grooves on the E. and 2 grooves on<br>the W. faces, and raise a mound of stone 2 ft. base,<br>1½ ft. high, N. of cor.<br><br>Pits impracticable.<br><br>This cor. is 600 ft. above the bottom of Dry Creek<br>Canon.<br><br>I destroy all marks on the bearing trees and on the<br>Standard Cor. that pertain to T.5 N. R.3 E.<br><br>Land mountainous<br><br>Soil rocky on 15.00 chs. 4th. rate.<br>balance gravelly 3rd. rate.<br><br>No timber.<br><br>Mountainous land on 81.27 chs. |
|        | <hr/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | From the cor. to secs. 28-29-32 and 33,<br>heretofore described.<br><br>I run<br><br>N.0° 02' W. bet. secs. 28 and 29.<br><br>Descend through dense artemisia, maple and oak brush.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I.25   | Bottom of ravine 100 ft. deep, course S.E.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| I4.50  | Top of spur projects W.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| I9.00  | Head of gulch course S.W.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 30.00  | Enter aspen timber bears S.E. and N.W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 40.00  | Set a trachyte stone 15x10x6 ins., 10 ins. in the<br>ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S.on W.face,<br>from which<br>An aspen 3 ins.diam., bears S.33°E., 43 lks.dist.,<br>marked $\frac{1}{4}$ S.28 B.T.<br>An aspen 2 ins.diam., bears N.54°W., 17 lks.dist.,<br>marked $\frac{1}{4}$ S.29 B.T.                                                                                                                                                                                                                                                                                                                                   |
| 71.00  | Top of ridge 500 ft.above sec.cor., bears E.and W.<br>Leave aspens bear E.and W.<br>Enter dense mountain willows.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 78.00  | Leave willows.<br>Enter scattering aspen and pine timber,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 80.00  | Set a trachyte stone 15x12x8 ins., 10 ins. in the<br>ground for cor.of secs.20-21-28 and 29, marked with<br>2 notches on the S.and 4 notches on the E.edges,<br>from which<br>A pine 8 ins.diam., bears N.24°E., 1.55 chs.dist.,<br>marked T.5 N. R.3 E. S.21 B.T.<br>An aspen 3 ins.diam., bears S.34°E., 74 lks.dist.,<br>marked T.5 N. R.3 E. S.28 B.T.<br>A pine 4 ins.diam., bears S.33°W., 1.01 chs.dist.,<br>marked T.5 N. R.3 E. S.29 B.T.<br>A pine 4 ins.diam., bears N.14°W., 1.14 chs.dist.,<br>marked T.5 N. R.3 E. S.20 B.T.<br>Land mountainous.<br>Soil gravelly 3rd.rate.<br>Timber aspens on 43.00 chs.<br>scattering pine on 2.00 chs. |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS | Mountainous land on 80.00 chs.<br>June 20: At this cor. I set off 23° 27' N. on the decl. arc; and at 0 h.01 m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 41° 09' N.                                                                                                                        |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | East on a random line bet. secs. 21 and 28.                                                                                                                                                                                                                                                                             |
| 40.00  | Set temp. $\frac{1}{4}$ sec.cor.                                                                                                                                                                                                                                                                                        |
| 79.90  | Intersect N. and S. line at the cor. of secs. 21-22-27 and 28.<br>Thence I run                                                                                                                                                                                                                                          |
|        | West on a true line bet.<br>secs. 21 and 28.<br>Descend through dense artemisia, oak and scattering aspens.                                                                                                                                                                                                             |
| 10.00  | Head of ravine course S.<br>Ascend.                                                                                                                                                                                                                                                                                     |
| 18.50  | Top of spur projects S.<br>Descend.                                                                                                                                                                                                                                                                                     |
| 21.00  | Head of ravine course S.E.<br>Ascend.                                                                                                                                                                                                                                                                                   |
| 29.00  | Top of ridge bears N.E. and S.W.<br>Descend.                                                                                                                                                                                                                                                                            |
| 39.95  | Set a trachyte stone 15x10x8 ins., 10 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on N. face, from which<br>An aspen 8 ins. diam., bears S. 30° E., 14 lks. dist., marked $\frac{1}{4}$ S. 28 B.T.<br>An aspen 7 ins. diam., bears N. 22° W., 13 lks. dist., marked $\frac{1}{4}$ S. 21 B.T. |
| 47.00  | Head of ravine 150 ft. below top of ridge, bears N.W.<br>Ascend.                                                                                                                                                                                                                                                        |
| 54.00  | Leave timber bears N.W. and S.E.<br>Enter dense willows.                                                                                                                                                                                                                                                                |
| 64.50  | Top of ridge bears N.W. and S.E.<br>Leave willows.                                                                                                                                                                                                                                                                      |

SUBDIVISIONS OF T.5 N.: R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Descend.                                                                                                                                                                                                                                                                                                                                     |
|        | Enter scattering aspen and pine timber.                                                                                                                                                                                                                                                                                                      |
| 79.90  | The cor. of secs. 20-21-28 and 29.<br>200 ft. below top of ridge.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber aspen and pine on 69.40 chs.<br>Mountainous land on 79.90 chs.                                                                                                                                                  |
|        | N.0° 02' W. bet. secs. 20 and 21.                                                                                                                                                                                                                                                                                                            |
|        | Descend through dense artemisia, oak and scattering aspen and pine timber.                                                                                                                                                                                                                                                                   |
| 2.50   | Bottom of ravine 150 ft. deep, course W.<br>Leave timber.<br>Ascend.                                                                                                                                                                                                                                                                         |
| 9.00   | Enter heavy aspen timber bears N.W. and S.E.                                                                                                                                                                                                                                                                                                 |
| 11.00  | Top of ridge bears N.W. and S.E.<br>Enter scattering pines and willows.                                                                                                                                                                                                                                                                      |
| 37.50  | Bottom of gulch course N.E.<br>Ascend.                                                                                                                                                                                                                                                                                                       |
| 40.00  | Top of spur projects E.<br>Set a trachyte stone 18x14x8 ins., 12 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on W. face, from which<br>An aspen 3 ins. diam., bears N.1° E., 31 lks. dist., marked $\frac{1}{4}$ S.21 B.T.<br>A pine 8 ins. diam., bears S.79° W., 98 lks. dist., marked $\frac{1}{4}$ S.20 B.T. |
|        | Descend.                                                                                                                                                                                                                                                                                                                                     |
| 64.50  | Taylor Creek 12 lks. wide, 6 ins. deep; in canon 250 ft. deep, course N.W.<br>Ascend.                                                                                                                                                                                                                                                        |
| 65.00  | Canon road, badly washed out, bears N.W. and S.E.                                                                                                                                                                                                                                                                                            |
| 80.00  | Set a trachyte stone 15x14x6 ins., 10 ins. in the ground for cor. of secs. 16-17-20 and 21, marked with 3 notches on the S. and 4 notches on the E. edges.                                                                                                                                                                                   |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

CHAINS

from which

An aspen 2½ ins.diam., bears N.41°E., 31 lks.dist., marked T.5 N. R.3 E. S.16 B.T.

An aspen 6 ins.diam., bears S.55°30'E., 40 lks.dist., marked T.5 N. R.3 E. S.21 B.T.

An aspen 6 ins.diam., bears S.19°W., 29 lks.dist., marked T.5 N. R.3 E. S.20 B.T.

An aspen 3 ins.diam., bears N.24°30'W., 29 lks.dist., marked T.5 N. R.3 E. S.17 B.T.

Land mountainous.

Soil gravelly 3rd.rate.

Timber aspen and scattering pine on 73.50 chs.

Mountainous land on 80.00 chs.

June 20, 1902.

June 21: At 7 a.m., l.m.t., I set off 41° 10'N.on the lat.arc; 23° 28'N.on the decl.arc; and determine a true meridian with the solar , at the cor of secs.16-17-20 and 21.

Thence I run

East on a random line bet.secs.16 and 21.

40.00 Set temp. sec.cor.

79.86 Intersect N.and S. line 7 lks.S.of the cor.of secs. 15-16-21 and 22.

Thence I run

S.89° 57'W.on a true line

Bet.secs.16, and 21.

Descend through heavy aspen and scattering pine timber.

4.50 Bottom of ravine 100 ft.deep, course N.W.

Ascend.

10.50 On top of spur projects N.10°W.

Descend.

18.50 Bottom of ravine 150 ft.deep, course N.W.

Ascend.

38.50 Top of spur ridge projects N.W.

Descend.

SUBDIVISIONS OF T.5 N. - R.3 E., continued.

|                 |                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS<br>39.93 | Set a trachyte stone 15x12x10 ins., 10 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S.on N.face, from which A pine 12 ins.diam., bears S.61°E., 9 lks.dist. marked $\frac{1}{4}$ S.21 B.T.                                                                                                                                                     |
|                 | A pine 6 ins.diam., bears N.20°W., 42 lks.dist., marked $\frac{1}{4}$ S.16 B.T.                                                                                                                                                                                                                                                                                       |
| 48.00           | Bottom of ravine 100 ft.deep, course N.W.<br>Ascend.                                                                                                                                                                                                                                                                                                                  |
| 57.00           | Top of ridge bears N.W. and S.E.<br>Descend.                                                                                                                                                                                                                                                                                                                          |
| 79.86           | The cor.of secs.I6-I7-20 and 21.<br>600 ft.below the cor.of secs.I5-I6-21 and 22.<br>Land mountainous.<br>Soil gravelly 3rd.rate.<br>Timber aspen and pine on 79.86 chs.<br>Mountainous land on 79.86 chs.<br>June 21: At this cor.I set off 23° 27'N.on the decl. arc; and at 0h.01m., p.m., l.m.t., observe the sun on the meridian, the resulting lat.is 41° 10'N. |
|                 | 41° 10'N.                                                                                                                                                                                                                                                                                                                                                             |
|                 | N.0° 02'W.bet.secs.I6 and I7.<br>Ascend through heavy aspen timber.                                                                                                                                                                                                                                                                                                   |
| I.50            | Leave timber bears E.and W.<br>Enter dense artemisia and oak brush.                                                                                                                                                                                                                                                                                                   |
| 13.00           | Top of ridge bears N.W. and S.E.<br>Enter scattering aspen and pine timber.<br>Descend.                                                                                                                                                                                                                                                                               |
| 40.00           | Set a trachyte stone 15x12x6 ins., 10 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S.on W.face, from which A pine 12 ins.diam., bears S.38°E., 58 lks.dist., marked $\frac{1}{4}$ S.16 B.T.                                                                                                                                                    |
|                 | A pine 10 ins.diam., bears N.87°W., 48 lks.dist., marked $\frac{1}{4}$ S.17 B.T.                                                                                                                                                                                                                                                                                      |
| 61.50           | Layton Creek 5 lks.wide, 5 ins.deep, in canon 250 ft. deep                                                                                                                                                                                                                                                                                                            |

SUBDIVISIONS OF T. 5 N., R. 3 E., continued.

CHAINS

- course N.W.
- A few cottonwoods along the bottom of the canon.
- Leave timber
- Enter laurel and mahoganies.
- Ascend.
- 72.00 Top of spur projects W.
- Descend.
- 80.00 Set a trachyte stone 18x8x8 ins. 12 ins. in the ground for cor. of secs. 8-9-16, and 17, marked with 4 notches on the S. and E. edges, and raise a mound of stone 2 ft. base  $1\frac{1}{2}$  ft. high, W. of cor.
- Pits impracticable.
- Land mountainous.
- Soil gravelly 3rd. rate.
- Timber scattering aspen and pines on 48.50 chs.
- A few cottonwoods.
- Mountainous land on 80.00 chs.
- 
- N. 89° 57' E. on a random line bet. secs. 9 and 16.
- 40.00 Set temp.  $\frac{1}{4}$  sec. cor.
- 79.92 Intersect N. and S. line 3 lks. N. of the cor. of secs. 9-10-15 and 16.
- Thence I run ✓
- S. 89° 58' W. on a true line
- Bet. secs. 9 and 16.
- Descend through heavy aspen timber.
- 13.00 Bottom of ravine 150 ft. deep, course N.W.
- Leave aspens bear N.W. and S.E.
- Ascend.
- Enter dense artemisia, oak, maple, laurel, deer and service berry brush.
- 25.00 Top of spur ridge projects N.W.
- Descend.
- 39.00 Bottom of ravine 150 ft. deep, course N.W.
- Enter aspens bear N.W. and S.E.
- Ascend.

SUBDIVISIONS OF T. 5 N. R. S. E., continued.

|                 |                                                                                                                                                                                                                                                                                                                       |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS<br>39.96 | Set a trachyte stone 15x12x8 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on the N. face, from which An aspen 3 ins. diam., bears S. 86° E., 21 lks. dist., marked $\frac{1}{4}$ S. 16 B.T. An aspen 3 ins. diam., bears N. 47° W., 16 lks. dist., marked $\frac{1}{4}$ S. 9 B.T. |
| 50.30           | Top of ridge bears N.W. and S.E.<br>Leave aspens bear N.W. and S.E.<br>Descend through dense undergrowth.                                                                                                                                                                                                             |
| 66.00           | Bottom of ravine 200 ft. deep, course N.W.<br>Begin abrupt ascent.                                                                                                                                                                                                                                                    |
| 78.00           | Top of spur projects N.W.<br>Descend.                                                                                                                                                                                                                                                                                 |
| 79.92           | The cor. of secs. 8-9-16 and 17.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber aspens on 24, 30 chs.<br>Mountainous land and dense undergrowth on 79.92 chs.                                                                                                                                             |

June 21, 1902.

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June 22: At 7 a.m., l.m.t., I set off 41° 10' N. on the lat. arc; 23° 28' N. on the decl. arc; and determine a true meridian with the solar, at the cor. of secs. 8-9-16 and 17.

Thence I run

N. 0° 02' W. bet. secs. 8 and 9.

Descend through dense artemisia, oak and scattering mahoganies.

|       |                                                                                                                                                   |
|-------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.50  | Bottom of ravine 150 ft. deep, course N.W.<br>Ascend.                                                                                             |
| 10.00 | Top of spur projects W.<br>Descend.                                                                                                               |
| 32.50 | Cottonwood Creek 20 lks. wide, 10 ins. deep, in canon 700 ft. deep, course S.W.<br>A few cottonwoods are scattered along the bottom of the canon. |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                       |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Begin abrupt ascent.                                                                                                                                                                                                                                  |
| 40.00  | Set a trachyte stone 24x10x10 ins., 18 ins. in the ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on the W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.                          |
|        | This cor. is 150 ft. above the canon.                                                                                                                                                                                                                 |
| 72.00  | Top of spur projects S.E.                                                                                                                                                                                                                             |
|        | Descend.                                                                                                                                                                                                                                              |
| 80.00  | Head of ravine course S.E.                                                                                                                                                                                                                            |
|        | Set a trachyte stone 15x10x6 ins., 10 ins. in the ground for cor. of secs. 4-5-8 and 9, marked with 5 notches on the S. and 4 notches on the E. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable. |
|        | This cor. is 500 ft. above the bottom of Cottonwood Canon.                                                                                                                                                                                            |
|        | Land mountainous.                                                                                                                                                                                                                                     |
|        | Soil gravelly 3rd. rate.                                                                                                                                                                                                                              |
|        | Timber a few cottonwoods in the canon.                                                                                                                                                                                                                |
|        | Mountainous land on 80.00 chs.                                                                                                                                                                                                                        |
|        | N. $89^{\circ}58'$ E. on a random line bet. secs: 4 and 9.                                                                                                                                                                                            |
| 40.00  | Set temp. $\frac{1}{4}$ sec.cor.                                                                                                                                                                                                                      |
| 79.88  | Intersect N. and S. line at the cor. of secs. 3-4-9 and 10.                                                                                                                                                                                           |
|        | Thence I run                                                                                                                                                                                                                                          |
|        | S. $89^{\circ} 58'$ W. on a true line                                                                                                                                                                                                                 |
|        | Bet. secs. 4 and 9.                                                                                                                                                                                                                                   |
|        | Descend through dense artemisia and oak brush.                                                                                                                                                                                                        |
| 24.60  | Cottonwood Creek 20 lks. wide, 8 ins. deep, in canon 600 ft. deep, course S.W.                                                                                                                                                                        |
|        | A ravine from the N.W. joins the canon at this point. A few cottonwoods are scattered along the bottom of the canon.                                                                                                                                  |
|        | Begin abrupt ascent.                                                                                                                                                                                                                                  |
| 39.94  | Set a trachyte stone 15x12x9 ins., 10 ins. in the                                                                                                                                                                                                     |

## SUBDIVISIONS OF T. 5 N. R. 3 E., continued

| CHAINS |                                                                                                                                                                                              |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | ground for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on the N. face, and raise a mound of stone 2 ft. base, 1 $\frac{1}{2}$ ft. high, N. of cor. Pits impracticable.                   |
| 44.00  | Top of spur projects S.E.<br>Descend.                                                                                                                                                        |
| 53.50  | Bottom of ravine 150 ft. deep, course S.E.<br>Ascend.                                                                                                                                        |
| 58.00  | Top of spur projects S.E.<br>Descend.                                                                                                                                                        |
| 67.00  | Bottom of ravine 150 ft. deep, course S.E.<br>Ascend.                                                                                                                                        |
| 73.00  | Top of ridge bears N.W. and S.E.<br>Descend.                                                                                                                                                 |
| 79.88  | The cor. of secs. 4-5-8 and 9.<br>In head of ravine course S.E.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber a few cottonwoods in the canon.<br>Mountainous land on 79.88 chs. |
|        | June 22: At this cor. I set off 23° 27' N. on the decl. arc; and at 0 h. 02 m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 41° II' N.                              |

Knowing the line bet. secs. 4 and 5 will not close within the limits on the N. Bdy. of the Tp.

I run

N. 0° 02' W. on a true line.

Bet. secs. 4 and 5.

Ascend abruptly through dense artemisia and oak brush.

9.40 Top of ridge bears N.W. and S.E.

Descend.

16.00 Bottom of ravine 100 ft. deep, course S.E.

Begin abrupt ascent.

33.00 Top of ridge 300 ft. above the sec.cor.

bears N.W. and S.E.

SUBDIVISIONS OF T.5 N. R.3 E., continued.

CHAINS

Descend.

40.00 Set a trachyte stone 24x14x6 ins., 18 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S. On the W. face, and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, W. of cor. Pits impracticable.

This cor. is set in the head of a ravine course S.E.

Ascend.

63.70 Top of spur ridge projects S.E.

Descend.

75.00 Head of ravine course S.E.

Ascend.

86.42 Intersect N.Bdy. of Tp. East, 3:71 chs. dist. from the cor. of secs. 4-5-32 and 33, which is a boulder 10x10x8 ins. above ground, marked as described by the surveyor general.

I destroy all marks pertaining to T.5 N. R.3 E. and set a trachyte stone 24x10x10 ins. 18 ins. in the ground, for closing cor. to secs. 4 and 5, marked with C.C. on the S., 4 grooves on the E.. and 2 grooves on the W.faces, and raise a mound of stone 2 ft. base,  $1\frac{1}{2}$  ft. high, S. of cor.

Pits impracticable.

This cor. is 500 ft. above the cor. of secs. 4-5-8 and 9.

Land mountainous.

Soil gravelly 3rd. rate..

No timber.

Mountainous land on 86.42 chs.

June 22, 1902.

June 23: At 7 a.m., l.m.t., I set off  $41^{\circ} 08'N$  on the lat.arc:  $23^{\circ} 28'N$ . on the decl.arc; and determine a true meridian with the solar, at the cor. of secs. 29-30-31 and 32,

Knowing the line bet. secs. 31 and 32 will not close within limits on the S.Bdy. of the Tp.

I run

S.0°03'E. on a true line

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS | BET. SECS. 31 AND 32.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Ascend through dense artemisia and oak brush.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 2.65   | Top of ridge bears N.W. and S.E.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | Begin abrupt descent.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 17.00  | Bottom of ravine 250 ft. deep, course S.E.<br>This ravine heads 10.00 chs. N.W.                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 28.00  | Top of spur projects E.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 33.00  | Bottom of ravine 100 ft. deep, course N.E.                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|        | Begin abrupt ascent through scattering pine timber.                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 38.00  | Leave pine, enter aspen timber. bears E. and W.                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 40.00  | Set a trachyte stone 15x10x5 ins., 10 ins. in the ground, for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on the W. face, from which<br>An aspen 6 ins. diam., bears N:42° W., 21 lks. dist., marked $\frac{1}{4}$ S. 31 B.T.<br>An aspen 3 ins. diam., bears S.47° E., 9 lks. dist., marked $\frac{1}{4}$ S. 32 B.T.                                                                                                                                                         |
| 41.00  | Top of spur projects E.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|        | Begin abrupt descent.                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 56.00  | Dry bed of Dry Creek, in canon 500 ft. deep, course N.E.<br>Enter heavy pine timber, bears E. and W.                                                                                                                                                                                                                                                                                                                                                                               |
|        | Begin abrupt ascent.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 78.00  | Leave pine bears N.E. and S.W.<br>Enter heavy aspen timber.                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 81.45  | Intersect the First Standard Parallel North, 6.65 chs. N.89° 51'E. of the Standard Cor. to secs. 31 and 32. heretofore described.<br>Set a limestone 20x10x6 ins., 15 ins. in the ground for closing to secs. 31 and 32,<br>marked with C.C. on the N., 5 grooves on the E. and with 1 groove on the W. faces,<br>from which<br>An aspen 12 ins. diam., bears N.31° 30'W., 28 lks. dist., marked T.5 N. R.3 E. S. 31 B.T.<br>An aspen 5 ins. diam., bears N.43° E., 30 lks. dist.. |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

CHAINS

marked T.5 N. R.3 E. S.32 B.T.  
 I destroy all marks on the bearing trees and the S.  
 Standard Cor. that pertain to T.5 N. R.3 E.  
 Land mountainous.  
 Soil stony and rocky 3rd. and 4th. rate.  
 Timber aspen and pine on 48.43 chs..  
 Mountainous land on 81.43 chs..  
 June 23: At th is cor. I set off  $23^{\circ} 28' N.$  on the decl.  
 arc; and at 0 h.01 m., p.m., l.m.t., observe the  
 sun on the meridian, the resulting lat. is  
 $41^{\circ} 07' N.$

---

From the cor. of secs. 29-30-31 and 32  
 heretofore described.

I run

$N.0^{\circ} 03' W.$  bet. secs. 29 and 30.

Descend through dense artemisia, laurel and oak brush.

6.00 Enter scattering pine timber.

24.00 Bottom of ravine 150 ft. deep, course N.E.

Ascend.

40.00 Top of spur projects E.

Set a trachyte stone 12x12x6 ins., 8 ins. in the  
 ground for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S. on W. face,  
 from which

A pine 4 ins. diam., bears  $S.58^{\circ} E.$ , 35 lks. dist.,  
 marked  $\frac{1}{4}$  S.29 B.T.

A pine 15 ins. diam., bears  $S.23^{\circ} 30' W.$ , 2.42 chs. dist.,  
 marked  $\frac{1}{4}$  S.30 B.T.

Descend.

43.00 Enter heavy pine timber bears E. and W.

66.00 Bottom of ravine 150 ft. deep, course N.E.

Leave pine bears N.E. and S.W.

Enter dense willows, laurel and oak.

Ascend.

70.00 Top of spur projects N.E.

Enter heavy aspen timber bears N.E. and S.W.

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|       |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|       | CHAINS | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 80.00 |        | Set a trachyte stone 14x8x8 ins., 10 ins. in the ground for cor. of secs. 19-20-29 and 30, marked with 2 notches on the S. and 5 notches on the E. edges, from which An aspen 4 ins. diam., bears N.31° 30'E., 6 lks. dist., marked T.5 N. R.3 E. S.20 B.T.<br>An aspen 4 ins. diam., bears S.22°E., 17 lks. dist., marked T.5 N. R.3 E. S.29 B.T.<br>An aspen 4 ins. diam., bears S.31°W., 30 lks. dist., marked T.5 N. R.3 E. S.30 B.T.<br>An aspen 4 ins. in diam., bears N.54°W., 13 lks. dist., marked T.5 N. R.3 E. S.19 B.T.<br>This cor. is 700 ft. below the cor. of secs. 29-30-31 and 32.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber aspen and pine on 70.00 chs.<br>Mountainous land on 80.00 chs. |
|       |        | East on a random line bet. secs. 20 and 29.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 40.00 |        | Set temp. $\frac{1}{4}$ sec. cor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 80.02 |        | Intersect N. and S. line at the cor. of secs. 20-21-28 and 29.<br>Thence I run ✓                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|       |        | West on a true line bet. secs. 20 and 29.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|       |        | Descend through scattering aspens and pines.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 1.50  |        | Enter heavy pine timber bears N.E. and S.W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 18.00 |        | Bottom of ravine 200 ft. deep, course S.W.<br>Leave timber bears N.E. and S.W.<br>Enter dense artemisia and oak brush.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|       |        | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 24.50 |        | Top of spur projects S.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 35.00 |        | Bottom of same ravine course N.W.<br>Enter heavy aspen and pine timber bears N.W. and S.E.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

SUBDIVISIONS OF T. 5 N. R. 3 E., continued.

CHAINS

Ascend.

40.01 Set a trachyte stone 15x10x6 ins., 10 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S.on N.face, from which

An aspen 5 ins.diam., bears N. $34^{\circ}$ E., 27 lks.dist., marked  $\frac{1}{4}$  S.20 B.T.

A pine 5 ins.diam., bears S. $37^{\circ}$ W., 3 lks.dist., marked  $\frac{1}{4}$  S.29 B.T.

50.00 Top of spur projects N.W..

Leave timber bears N.W. and S.E.

Enter dense under growth.

Descend.

69.00 Fork of Arbuckle Creek 3 lks.wide, 5 ins.deep, in canon 400 ft.deep, course N.W.

Begin abrupt ascent..

78.00 Enter dense willows and aspens.

80.02 The cor.of secs.19-20-29 and 30.

This cor.is 300 ft.above the canon..

Land mountainous.

Soil gravelly 3rd.rate.

Timber aspen and pine on 33.50 chs.

Mountainous land on 80.02 chs..

June 23, 1902.

June 24: At 7 a.m., l.m.t., I set off  $41^{\circ} 09'N$ .on the lat.arc;  $23^{\circ} 27'N$ .on the decl.arc; and determine a true meridian with the solar, at the cor. of secs.19-20-29 and 30.

Knowing the line bet.secs.19 and 30 will not close within limits on the W. Bdy.of the Tp.

I run

West on a true line bet.

Secs 19 and 30.

Ascend through dense willows and aspen timber.

3.00 Top of spur projects N.

Leave timber bears N.and S.

Descend.

**SUBDIVISIONS OF T.5 N. R.3 E., continued.**

| <b>CHAINS</b> |                                                                                                                                                                                                                                                                                                                            |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 7.00          | Bottom of ravine 100 ft. deep, course N.E.                                                                                                                                                                                                                                                                                 |
|               | Ascend.                                                                                                                                                                                                                                                                                                                    |
| 19.00         | Top of spur ridge projects N.15°E.                                                                                                                                                                                                                                                                                         |
|               | Enter scattering aspen and pine timber.                                                                                                                                                                                                                                                                                    |
|               | Descend.                                                                                                                                                                                                                                                                                                                   |
| 26.50         | Gulch course N.W.                                                                                                                                                                                                                                                                                                          |
|               | Ascend..                                                                                                                                                                                                                                                                                                                   |
| 28.00         | Top of spur projects N.                                                                                                                                                                                                                                                                                                    |
|               | Descend.                                                                                                                                                                                                                                                                                                                   |
| 32.75         | Bottom of ravine 100 ft. deep, course N.                                                                                                                                                                                                                                                                                   |
|               | Ascend.                                                                                                                                                                                                                                                                                                                    |
| 35.75         | Top of ridge bears N. and S.                                                                                                                                                                                                                                                                                               |
|               | Descend.                                                                                                                                                                                                                                                                                                                   |
| 40.00         | Set a limestone 20x10x8 ins., 15 ins. in the ground<br>for $\frac{1}{4}$ sec.cor., marked $\frac{1}{4}$ S. on the N. face.<br>from which<br>An aspen 5 ins. diam., bears N.31°E., 57 lks. dist.,<br>marked $\frac{1}{4}$ S.19 B.T.<br>A pine 6 ins. diam., bears S.58°W., 55 lks. dist.,<br>marked $\frac{1}{4}$ S.30 B.T. |
| 47.25         | Arbuckle Creek 2 lks. wide, 4 ins. deep, in canon 300 ft.<br>deep, course N.E.<br>Leave timber..                                                                                                                                                                                                                           |
|               | Enter dense undergrowth.                                                                                                                                                                                                                                                                                                   |
|               | Begin abrupt ascent.                                                                                                                                                                                                                                                                                                       |
| 60.00         | Top of rocky ridge bears N.E. and SW.                                                                                                                                                                                                                                                                                      |
|               | Enter heavy aspen and pine timber.                                                                                                                                                                                                                                                                                         |
|               | Descend.                                                                                                                                                                                                                                                                                                                   |
| 70.50         | Bottom of ravine 150 ft. deep, course N.E.                                                                                                                                                                                                                                                                                 |
|               | Ascend.                                                                                                                                                                                                                                                                                                                    |
| 79.70         | Top of rocky spur projects N.E.                                                                                                                                                                                                                                                                                            |
|               | Descend.                                                                                                                                                                                                                                                                                                                   |
| 82.25         | Bottom of ravine 200 ft. deep, course N.E.<br>Leave timber bears N.E. and S.W.<br>Enter dense laurel and rose bushes.                                                                                                                                                                                                      |
|               | Ascend.                                                                                                                                                                                                                                                                                                                    |

SUBDIVISIONS OF T. 5 N.R. 3 E., continued.

|                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS<br>87.59 | Intersect W.Bdy.of Tp., S.0°05'W., 70 lks.dist. from<br>the cor.of secs. I9-24-25 and 30,<br>heretofore described.<br><br>Set a sandstone 18x15x5 ins., 12 ins.in the ground<br>for closing cor.to secs.I9 and 30,<br>marked C.C.on the E., 2 grooves on the s.and 4 grooves<br>on the N.faces, and raise a mound of stone 2 ft.<br>base, 1½ ft.high,E.of cor.<br><br>Pits impracticable.<br><br>I destroy all marks on the bearing trees and the<br>old cor.that pertain to T.5. N. R.3. E.<br><br>This cor.is 700 ft.above the cor.of secs.<br>I920-29 and 30.<br><br>Land mountainous.<br><br>Soil stony and rocky 3rd.and 4th.rate.<br><br>Timber aspen and pine on 56.84 chs.<br><br>Mountainous land on 87.59 chs.<br><br>June 24: At this cor.I set off 23° 26'N.on the decl.<br>arc;and at 0 h.02 m.,p.m.,l.m.t.,observe the<br>sun on the meridian,the resulting lat.is<br>41° 09'N.<br><br>N.0° 03'W.betsecs.I9 and 20.<br><br>Descend through willows,heavy aspen and scattering<br>pine timber.<br><br>16.00 Fork of Arbuckle Creek 4 lks.wide,6 ins.deep,in canon<br>500 ft.deep, course N.W.<br><br>Leave timber bears N.W.and S.E..<br><br>Enter dense artemisia,laurel and oak.<br><br>Ascend.<br><br>40.00 Set a trachyte stone 16x10x10,ins.,11ins.the<br>ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S.on the W.face, and<br>raise a mound of stone 2 ft.base, 1½ ft.high,W.of cor.<br>Pits impracticable.<br><br>46.80 Top of ridge bears N.W.and S.E.<br>Enter willows and aspens. |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

SUBDIVISIONS OF T.5 N., R.3 E., continued.

|        |                                                                                                                                                                                                                                                                                                          |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | Descend.                                                                                                                                                                                                                                                                                                 |
| 60.00  | Bottom of ravine 150 ft. deep, course N.W.                                                                                                                                                                                                                                                               |
|        | Leave timber.                                                                                                                                                                                                                                                                                            |
|        | Ascend.                                                                                                                                                                                                                                                                                                  |
| 68.00  | Top of spur projects W.                                                                                                                                                                                                                                                                                  |
|        | Descend.                                                                                                                                                                                                                                                                                                 |
| 74.00  | Gulch course W.                                                                                                                                                                                                                                                                                          |
|        | Ascend.                                                                                                                                                                                                                                                                                                  |
| 80.00  | Set a trachyte stone 20x12x9 ins., 15 ins. in the ground, for cor. of secs. I7-I8-I9 and 20, marked with 5 notches on the E. and 3 notches on the S. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.<br>This cor. is 500 ft. above Arbuckle Creek. |
|        | Land mountainous.                                                                                                                                                                                                                                                                                        |
|        | Soil gravelly 3rd. rate.                                                                                                                                                                                                                                                                                 |
|        | Timber aspens and pine on 29.20 chs.                                                                                                                                                                                                                                                                     |
|        | Mountainous land on 80.00 chs.                                                                                                                                                                                                                                                                           |
|        | East on a random line bet. secs. I7 and 20.                                                                                                                                                                                                                                                              |
| 40.00  | Set temp. $\frac{1}{4}$ sec. cor.                                                                                                                                                                                                                                                                        |
| 80.10  | Intersect N. and S. line at the cor. of secs. I6-I7-20 and 21.<br>Thence I run                                                                                                                                                                                                                           |
|        | West on a true line bet. Secs. I7 and 20.                                                                                                                                                                                                                                                                |
|        | Descend through oak, willows and aspens.                                                                                                                                                                                                                                                                 |
| 9.00   | Canon road bears N.W. and S.E.                                                                                                                                                                                                                                                                           |
| 9.50   | Taylor Creek 10 lks. wide, 6 ins. deep, in canon 300 ft. deep, course N.W.                                                                                                                                                                                                                               |
|        | Enter scattering pine.                                                                                                                                                                                                                                                                                   |
|        | Ascend.                                                                                                                                                                                                                                                                                                  |
| 40.05  | Set a trachyte stone 14x8x7 ins., 10 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on the N. face, from which An aspen 3 ins. diam., bears N. 22° W., 7 lks. dist.,                                                                                                            |

SUBDIVISIONS OF T.5 N. R. 3 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | marked $\frac{1}{4}$ S. 17 B.T.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|        | An aspen 3 ins. diam., bears S. 64° W., 23 lks. dist., marked $\frac{1}{4}$ S. 20 B.T.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 46.00  | Top of ridge bears N.W. and S.E.<br>Leave timber bears N.W. and S.E.<br>Enter dense artemisia, maple and oak.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 50.00  | Bottom of ravine 100 ft. deep, course N.E.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 61.50  | Top of ridge bears N.W. and S.E.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 80.10  | The cor. of secs. I7-I8-I9 and 20.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber aspen and pine on 46.00 chs.<br>Mountainous land on 80.10 chs.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|        | June 24, 1902.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|        | June 25: At 7 a.m., l.m.t., I set off 41° 10' N. on the lat. arc; 23° 26' N. on the decl. arc; and determine a true meridian with the solar at the cor. of secs. I7-I8-I9 and 20.<br>Knowing the line bet. secs. I8 and I9 will not close within limits on the W. bdy. of the Tp.<br>I run<br>West on a true line bet.<br>secs. I8 and I9.<br>Descend abruptly through dense artemisia, maple, laurel and oak brush.<br>40.00 Set a trachyte stone 12x12x8 ins., 8 ins. in the ground for $\frac{1}{4}$ sec. cor., marked $\frac{1}{4}$ S. on N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.<br>Pits impracticable.<br>42.00 Canon road bears N.W. and S.E.<br>44.10 Arbuckle Creek 10 lks. wide, 8 ins. deep, in canon, 800 ft. deep, course N.W. |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Enter scattering pine timber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | Begin abrupt ascent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 63.00  | Top of ridge bears N.and S.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Begin abrupt descent.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 86.00  | Bottom of ravine 300 ft.deep, course N.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 87.43  | Intersect W.Bdy.of Tp., S.0° 02'W., 2.20 chs.dist.from<br>the cor.of secs.I3-I8-I9 and 24.<br>heretofore described.<br>Set a limestone 12x9x8 ins., 8 ins.in the ground for<br>closing cor.to secs.I8 and I9,<br>marked C.C.on the E., and with 3 grooves on the N.and<br>S.faces, and raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.<br>high, E.of cor.<br>Pits impracticable.<br>I destroy all marks on the bearing trees and the<br>old cor.that pertain to T.5 N. R.3 E.<br>Land mountainous.<br>Soil gravelly 3rd.rate.<br>Timber scattering pines on 43.00 chs.<br>Mountainous land on 87.43 chs. |
|        | N.0° 03'W.betsecs.I7 and I8.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|        | Ascend through dense artemisia, laurel and oak.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 2.00   | Top of ridge bears E.and W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|        | Enter willows, maple, scattering aspen and pine timber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 25.00  | Bottom of ravine 150 ft.deep, course N.W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|        | Leave timber.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|        | Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 32.00  | Top of spur projects W.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 40.00  | Set a trachyte stone 15x8x8 ins., 10 ins.in the<br>ground for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ S.on the W.face, and<br>raise a mound of stone 2 ft.base, 1 $\frac{1}{2}$ ft.high,W.of cor.<br>Pits impracticable.                                                                                                                                                                                                                                                                                                                                                                                  |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 68.00  | Bottom of ravine 100 ft. deep, course N.W.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 78.50  | Top of spur projects S.75°W.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 80.00  | Set a trachyte stone 15x10x8 ins, 10 ins. in the ground for cor. of secs. 7-8-I7 and I8, marked with 4 notches on the S. and 5 notches on the E. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.<br>Pits impracticable.<br>This cor. is 600 ft. below the cor. of secs. I7-I8-I9 and 20.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber scattering aspens and pine on 23.00 chs.<br>Mountainous land on 80.00 chs.<br>June 25: At this cor. I set off 23° 25'N. on the decl. arc; and at 0 h. 02 m., p.m., l.m.t., observe the sun on the meridian, the resulting lat. is 41° 10'N. |
| 40.00  | East on a random line bet. secs. 8 and I7.<br>Set temp. $\frac{1}{4}$ sec.cor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 80.08  | Intersect N. and S. line at the cor. of secs. 8-9-I6 and I7.<br>Thence I run                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|        | West on a true line bet. Secs. 8 and I7.<br>Descend through dense artemisia, oak and scattering mahoganies.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 12.50  | Layton Creek 5 lks. wide, 6 ins. deep, in canon 200 ft. deep, course N.W.<br>This creek joins Cottonwood Creek 15.00 chs. N.W.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 23.00  | Top of spur projects N.W. descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 29.00  | Bottom of ravine 100 ft. deep, course N.W.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

SUBDIVISIONS OF T.5 N. R.3 E., continued.

- | CHAINS |                                                                                                                                                                                                                |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 40.04  | Set a trachyte stone 15x8x8 ins., 10 ins. in the ground for $\frac{1}{4}$ sec.cor., marked + S. on the N. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor. Pits impracticable. |
| 57.35  | Top of spur projects N.<br>Begin abrupt descent.                                                                                                                                                               |
| 65.90  | Canon road bears N.W. and S.E.                                                                                                                                                                                 |
| 66.35  | Taylor Creek 10 lks. wide, 6 ins. deep, in canon 250 ft. deep, course N.W.<br>This creek joins Cottonwood creek 10.00 chs. N.W.<br>Begin abrupt ascent.                                                        |
| 76.00  | Top of spur projects N.<br>Descend along a steep N.slope through dense undergrowth.                                                                                                                            |
| 80.08  | The cor.of secs.7-8-I7 and I8.<br>Land mountainous.<br>Soil gravelly 3rd:rate.<br>No timber.<br>Mountainous land. on 80.08 chs.                                                                                |
- 

Knowing the line betsecs.7 and I8 will not close within limits on the W.Bdy.of the Tp.

I run

West on a true line bet.

Secs.7 and I8.

Descend abruptly through dense artemisia, maple, laurel and oak brush.

29.00 Enter cottonwood timber bears N.E. and S.W.

30.80 Cottonwood Creek 25 lks. wide, 10 ins. deep, in bottom of canon 900 ft. deep, course S.W.

Ascend.

32.00 Leave cottonwood timber bears S.W. and N.E.

Enter dense artemisia, maple and oak brush.

33.40 Canon road bears S.W. and N.E.

40.00 Set a trachyte stone 15x9x8 ins., 10 ins. in the ground for  $\frac{1}{4}$  sec.cor., marked + S. on the N. face, and

SUBDIVISIONS OF T.5 N. R.3 E., continued.

|        |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CHAINS | raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, N. of cor.<br>Pits impracticable.                                                                                                                                                                                                                                                                                                                                       |
| 62.00  | Top of ridge bears N. and S.<br>Descend.                                                                                                                                                                                                                                                                                                                                                                                            |
| 76.00  | Gulch bears S.W.<br>Ascend.                                                                                                                                                                                                                                                                                                                                                                                                         |
| 77.00  | Road bears N.E. and S.W.                                                                                                                                                                                                                                                                                                                                                                                                            |
| 87.33  | Top of spur projects E.<br>Intersect W.Bdy. of Tp. South 3.47 chs. dist. from the<br>cor. of secs. 7-12-13 and 18,<br>hereto fore described.<br>Set a limestone 12x8x8 ins., 8 ins. in the ground, for<br>closing cor. to secs. 7 and 18, marked C.C. on the E.,<br>with 4 grooves on the S. and 2 grooves on the N. faces,<br>and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high,<br>E. of cor.<br>Pits impracticable. |
|        | I destroy all marks on the bearing trees and the old<br>cor. that pertain to T.5 N. R.3 E.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber cottonwoods on 3.00 chs.<br>Mountainous land and dense undergrowth on 87.33 chs.                                                                                                                                                                                              |

June 25, 1902.

June 26: At 7 a.m., l.m.t., I set off  $41^{\circ} 10' N.$  on the  
lat. arc;  $23^{\circ} 25' N.$  on the decl. arc; and determine  
a true meridian with the solar at the cor. of  
secs. 7-8-17 and 18.

Thence I run

$N.0^{\circ}03' W.$  bet. secs. 7 and 8.

Descend abruptly through dense artemisia, laurel, and  
oak brush.

8.00 Foot of steep descent.

Enter cottonwood timber.

9.20 Cottonwood Creek 20 lks. wide 12 ins. deep, in canon  
900 ft. deep, course W.

## SUBDIVISIONS OF T.5 N. R.3 E., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                              |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Ascend..                                                                                                                                                                                                                                                                                                                                                     |
| 12.75  | Road bears E. and W.<br>Leave cottonwoods bear E. and W.<br>Enter dense artemisia and oak brush.                                                                                                                                                                                                                                                             |
| 16.00  | Begin abrupt ascent.                                                                                                                                                                                                                                                                                                                                         |
| 40.00  | Set a trachyte stone 12x10x6 ins., 8 ins. in the ground for $\frac{1}{2}$ sec.cor., marked $\frac{1}{4}$ S. on the W. face, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor. Pits impracticable.<br>This cor. is 300 ft. above the bottom of the canon.                                                                            |
| 44.25  | Top of spur projects S.E.<br>Begin abrupt descent.                                                                                                                                                                                                                                                                                                           |
| 80.00  | Set a trachyte stone 15x9x8 ins., 10 ins. in the ground for cor. of secs. 5x6x7 and 8, marked with 5 notches on the S. and E. edges, and raise a mound of stone 2 ft. base, $1\frac{1}{2}$ ft. high, W. of cor.<br>Pits impracticable.<br>Land mountainous.<br>Soil gravelly 3rd. rate.<br>Timber cottonwoods on 4.75 chs.<br>Mountainous land on 80.00 chs. |

East on a random line bet. secs. 5 and 8.

40.00 Set temp.  $\frac{1}{4}$  sec.cor.

80.10 Intersect N. and S. line, 5 lks. S. of the cor. of secs. 4-5-8 and 9.  
Thence I run  
S.  $89^{\circ} 58' W.$  on a true line  
Bet. secs. 5 and 8.  
Ascend through dense artemisia and oak brush.

12.00 Top of ridge bears N.E. and S.W.  
Descend.

23.00 Bottom of ravine 100 ft. deep, course S.  
Ascend.

37.25 Top of spur projects S.  
Descend.

40.05 Set a trachyte stone 18x14x6 ins., 12 ins. in the

## SUBDIVISIONS OF T.5 N. R.3 E., continued.

## CHAINS

ground for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S. on the N.face, and raise a mound of stone 2 ft.base,  $1\frac{1}{2}$  ft.high, N.of cor. Pits impracticable.

48.00 Bottom of ravine 200 ft.deep, course S.

Ascend.

59.50 Top of ridge bears N.and S.

Descend.

78.50 Bottom of ravine 200 ft.deep, course S.E.

Ascend.

80.10 The cor.of secs.5-6-7 and 8.

Land mountainous.

Soil gravelly 3rd.rate.

No timber.

Mountainous land, on 80.10 chs.

June 26: At this cor.I set off  $23^{\circ}23'N.$  on the decl.

arc; and at 0 h.02 m., p.m., l.m.t., observe the sun on the meridian, the resulting lat.is  $41^{\circ}11'N.$

Knowing the line betsecs.6 and 7 will not close within the limits on the W.Bdy.of the Tp.

I run

West on a true line bet..

Secs.6 and 7.

Ascend abruptly through dense artemisia and oak.

9.50 Top of ridge bears N.and S.

Descend.

19.75 Head of ravine course S.

Ascend.

37.00 A ridge from the S.joins another ridge 1.00 ch. north of line.

40.00 Top of ridge bears N.E.and S.W.

Set a trachyte stone 16x12x6 ins., 11 ins.in the ground for  $\frac{1}{4}$  sec.cor., marked  $\frac{1}{4}$  S.on the N.face, and raise a mound of stone 2 ft.base,  $1\frac{1}{2}$  ft.high, N.of cor.

Pits impracticable.

Enter dense maple brush.

SUBDIVISIONS OF T.5 N. R.3 M., continued.

| CHAINS |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|        | Descend.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 49.00  | Leave maples.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 87.2I  | Intersect W.Bdy.of Tp.South, 4.38 chs.dist.from the cor.of secs.I-6-7 and I2, heretofore described.<br>Set a trachyte stone 20x10x8 ins., 15 ins.in the ground for closing cor.to secs.6 and 7, marked C.C.on the E., 5 grooves on the S.and I groove on the N.faces, and raise a mound of stone 2ft.base, $1\frac{1}{2}$ ft.high,E.of cor.<br>Pits impracticable.<br>I destroy all marks on the bearing tree and the old cor.that pertain to T.5 N. R.3 E.<br>Land mountainous.<br>Soil gravelly 3rd.rate.<br>No timber.<br>Mountainous land and dense undergrowth on 87.2I chs.                                                                            |
|        | Knowing the line betsecs.5 and 6 will not close within limits on the N.Bdy.of the Tp.<br>I run<br>N.0° 03'W.on a true line<br>Bet.secs.5 and 6.<br>Descend through dense oak brush.<br>2.50 Bottom of ravine 200 ft.deep, course S.E.<br>Begin abrupt ascent.<br>30.00 Top of steep ascent.<br>Leave oak.<br>Enter dock weed.<br>Begin gradual ascent.<br>40.00 Set a trachyte stone 16x10x8 ins., 11 ins.in the ground,for $\frac{1}{4}$ sec.cor.,marked $\frac{1}{4}$ S.on W.face, and raise a mound of stone 2 ft.base, $1\frac{1}{2}$ ft.high,W.of cor.<br>Pits impracticable.<br>41.00 Top of flat ridge,1000 ft.above Cottonwood Creek, bears E.and W. |

SUBDIVISIONS OF T.5 N. R.3 E., concluded.

CHAINS

Descend.

60.00 Begin abrupt descent.

Enter willow, aspens and heavy pine timber.

86.4I Intersect N.Bdy. of Tp., East, 4.00 chs. dist. from the cor. of secs. 5-6-31 and 32, which is a boulder 12x10x10 ins. above the ground, marked and witnessed as described by the surveyor general.

Set a trachyte stone 18x12x12 ins., 12. ins. in the ground for closing cor. to secs. 5 and 6, marked C.C. on the S., 5 grooves on the E. and 1 groove on the W. faces, from which

A pine 5 ins. diam., bears S.2°E., 11 lks. dist., marked T.5 N. R.3 E. S.5 B.T..

A pine 12 ins. diam., bears S.32°W., 61 lks. dist., marked T.5 N. R.3 E. S. 6 B.T.

I destroy all marks on the bearing trees and the old cor. that pertain to T.5 N. R.3 E.

Land mountainous.

Soil gravelly 3rd. rate.

Timber aspen and pine on 26.4I chs.

Mountainous land on 86.4I chs.

June 26, 1902.

GENERAL DESCRIPTION OF T.5 N. R.3 E.

This entire township is mountainous and the soil is generally stony or gravelly making it unfit for cultivation.

The only land that can be cultivated lies in the N.W. $\frac{1}{4}$  of sec. 18 in the bottom of Cottonwood Canon and comprises about 30 acres...

The township is well watered, in the Spring of the year, by Cottonwood Creek and its tributaries in the north portion and by

Dry Creek, Tom Condie and the three Cottonwoods in

GENERAL DESCRIPTION OF T.5 N. R.3 E., SEDGWICK COUNTY

in the south portion and by several springs. With the exception of Arbuckle Creek and several springs there is no water in this township as a general rule after the middle of July.

Pine and aspen timber is found on nearly all the north slopes while the rest of the land is generally covered with a dense under growth.

The grazing is not very good, from all appearances the range has been overstocked.

Many prospect holes are found on secs. 18-19-30-31 and 32, but none of this township can be returned as mineral land.

There is one settler in this township,

E.P. Hardy is located in the N.W. $\frac{1}{4}$  of sec. 18, acres of land under cultivation 20.00. value of improvements about \$1000.

A dipping corral belonging to Schmalz and Roberts of Uintah and Hehefer, respectively, is located in the S.E. $\frac{1}{4}$  of sec. I.

*James A. Keast*

U.S. DEPUTY SURVEYOR

NOTE:

There being no notary public or other officer authorized to administer oaths within reasonable distance at the beginning or ending of this survey, in order to save time and expense I administer the preliminary and final oaths for survey and retracement myself.

*James A. Keast*

U.S. DEPUTY SURVEYOR

**FINAL OATHS OF DEPUTY SURVEYOR AND HIS ASSISTANTS.**

**LIST OF NAMES:**

A list of the names of the individuals employed by Harvey D. Heist,  
United States Deputy Surveyor, to assist in running, measuring, and  
marking the lines and corners described in the foregoing field notes of the survey of the  
Subdivisions of T.5 N. R.3 E. of the Salt Lake Meridian, Utah  
showing the respective capacities in which they acted:

Christian Schmalz, Chairman.  
George A. Needham, Chairman.  
William Roberts, Moundman.  
Cornelius Hunt, Moundman.  
Peter H. Peterson, Axman.  
Axman.  
Flagman.

**FINAL OATH OF ASSISTANTS.**

We hereby certify that we assisted Harvey D. Heist,  
United States Deputy Surveyor, in surveying all  
those parts or portions of the

Subdivisions of T.5 N. R.3 E.

of the Salt Lake  
base and meridian, in the state of Utah, which are represented  
in the foregoing field notes as having been surveyed by him and under his direction; and that said survey  
has been in all respects, to the best of our knowledge and belief, well and faithfully surveyed, and the  
corner monuments established, according to the instructions furnished by the United States Surveyor  
General for Utah.

Christian Schmalz, Chairman.  
George A. Needham, Chairman.  
William Roberts, Moundman.

Cornelius Hunt, Axman.

Axman.

Peter H. Peterson, Flagman.

Subscribed and sworn to before me this 27th,

day of June, 1902

Harvey D. Heist

U.S. Deputy Surveyor



**FINAL OATH OF UNITED STATES DEPUTY SURVEYOR.**

I, Harvey D. Heist, United States Deputy Surveyor, solemnly swear that, in pursuance of a contract received from Edward H. Anderson, United States Surveyor General for Utah, bearing date of the 12th day of November 1901, I have well, faithfully, and truly, in my said proper person, and in strict conformity with the instructions furnished by the United States Surveyor General for Utah, the Manual of Surveying Instructions, and the laws of the United States, surveyed all those parts or portions of the Subdivisions of T. 5 N. R. 3 E.

of the Salt Lake

Base and meridian, in the state of Utah, which are represented in the foregoing field notes as having been surveyed by me, and under my direction; and I do further solemnly swear that all the corners of said survey have been established and perpetuated in strict accordance with the Manual of Surveying Instructions, and the special written instructions of the United States Surveyor General for Utah, and in the specific manner described in the field notes, and that the foregoing are the original field notes of such survey; and should any fraud be detected, I will suffer the penalty of perjury under the provisions of an Act of Congress approved August 8, 1846.

*Harvey D. Heist*

United States Deputy Surveyor

Subscribed by said Harvey D. Heist, and sworn to before me,

this 14th day of July 1901.



**APPROVAL.**

OFFICE OF THE UNITED STATES SURVEYOR GENERAL,

*Salt Lake City, Utah, August 27, 1901*

The foregoing field notes of the survey of the divided stream lines of Township 5 North Range 3 East of the Salt Lake Base and Meridian, Utah,

executed by Harvey D. Heist, under his contract No. 248, dated November 12, 1901, having been critically examined, and the necessary corrections and explanations made, the said field notes, and surveys they describe, are hereby approved.

*Edward H. Anderson*

United States Surveyor Gen

I certify that the foregoing transcript of the field notes of the above-described surveys in \_\_\_\_\_, has been correctly copied from the original notes on file in this office.

*United States Surveyor Gen*

R.

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Surveyor General.